CATALOGUE OF GALAXIES AND OF CLUSTERS OF GALAXIES

VOLUME III

F. ZWICKY E. HERZOG

CATALOGUE OF GALAXIES

AND OF

CLUSTERS OF GALAXIES

prepared by

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Volume III

covering the Palomar survey fields

of the declination zones $+36^{\circ}$, $+42^{\circ}$, $+48^{\circ}$, $+54^{\circ}$

between $5^{h}30^{m}$ and $20^{h}00^{m}$ in right ascension

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FIELDS OF SURVEY ZONE +36°

FIELD No.	Survey Plate No.	Center of Field 1950.0 α	Center of Field 1950.0 δ	I.A.U. Galactic Coordinates λ	I.A.U. Galactic Coordinates β	Page No.
		h m	o '	o '	o '	
174	942	6 10	+36 00	176 44	+ 8 34	2
175	1268	6 38	+36 00	179 16	+13 39	4
176	889	7 06	+36 00	181 30	+18 53	6
177	1336	7 34	+35 30	184 00	+24 06	10
178	989	8 02	+35 30	185 45	+29 35	14
179	648	8 30	+35 30	187 13	+35 08	18
180	1342	8 58	+35 30	188 22	+40 46	22
181	925	9 26	+35 30	189 10	+46 26	26
182	1345	9 54	+35 30	189 29	+52 08	30
183	1032	10 22	+35 30	189 09	+57 49	34
184	731	10 49	+35 30	187 51	+63 17	38
185	695	11 17	+35 30	184 47	+68 50	42
186	109	11 45	+35 30	178 18	+74 10	48
187	1599	12 13	+35 30	164 12	+78 51	52
188	105	12 41	+35 30	134 23	+81 43	56
189	110	13 08	+35 30	97 38	+80 57	60
190	116	13 36	+35 30	74 54	+77 08	64
191	106	14 04	+35 30	64 34	+72 07	68
192	127	14 32	+35 30	59 44	+66 40	72
193	1610	15 00	+35 30	57 28	+61 04	76
194	107	15 28	+35 30	56 36	+55 23	80
195	71	15 56	+35 30	56 35	+49 41	82
196	1093	16 23	+36 00	57 48	+44 15	84
197	1069	16 51	+36 00	58 41	+38 37	88
198	1132	17 19	+36 00	59 55	+33 03	92
199	277	17 47	+36 00	61 27	+27 33	96
200	197	18 15	+36 00	63 16	+22 08	100
201	148	18 43	+36 00	65 21	+16 49	102
202	1434	19 11	+36 00	67 42	+11 38	106

FIELDS OF SURVEY ZONE +42°

FIELD No.	Survey Plate No.	Center of Field 1950.0 α h m	Center of Field 1950.0 δ ° ′	I.A.U. Galactic Coordinates λ ° ′	I.A.U. Galactic Coordinates β ° ′	Page No.
203	669	6 07	+42 00	171 04	+10 49	108
204	696	6 37	+42 00	173 29	+15 52	110
205	988	7 07	+42 00	175 34	+21 05	112
206	701	7 36	+41 30	177 45	+26 08	116
207	1329	8 06	+41 30	179 08	+31 37	120
208	707	8 36	+41 30	180 04	+37 10	124
209	721	9 06	+41 30	180 30	+42 47	128
210	661	9 36	+41 30	180 18	+48 24	132
211	711	10 06	+41 30	179 13	+54 01	136
212	690	10 36	+41 30	176 51	+59 26	140
213	1349	11 05	+41 30	172 42	+64 30	144
214	719	11 35	+41 30	165 16	+69 19	148
215	1367	12 05	+41 30	152 46	+73 16	152
216	115	12 35	+41 30	133 36	+75 37	156
217	133	13 04	+41 30	111 40	+75 34	160
218	154	13 34	+41 30	92 43	+73 09	164
219	1386	14 04	+41 30	80 25	+69 10	168
220	145	14 34	+41 30	73 08	+64 20	172
221	1371	15 04	+41 30	68 57	+59 04	176
222	1376	15 33	+41 30	66 44	+53 47	180
223	1369	16 03	+41 30	65 41	+48 12	184
224	743	16 33	+42 00	66 11	+42 36	188
225	1135	17 03	+42 00	66 35	+37 02	192
226	753	17 33	+42 00	67 29	+31 31	196
227	324	18 03	+42 00	68 50	+26 04	200
228	1445	18 33	+42 00	70 34	+20 44	202
229	340	19 03	+42 00	72 40	+15 32	204
230	281	19 33	+42 00	75 06	+10 29	206

FIELDS OF SURVEY ZONE +48°

FIELD No.	Survey Plate No.	Center of Field 1950.0 α	Center of Field 1950.0 δ	I.A.U. Galactic Coordinates λ	I.A.U. Galactic Coordinates β	Page No.
		h m	o '	o '	o '	
231	224	5 13	+48 00	160 54	+ 5 46	208
232	637	5 47	+48 00	163 59	+10 34	210
233	225	6 21	+48 00	166 36	+15 38	212
234	691	6 55	+48 00	168 45	+20 57	214
235	670	7 29	+47 30	170 56	+26 19	218
236	1317	8 03	+47 30	172 03	+31 59	222
237	671	8 37	+47 30	172 32	+37 42	226
238	1004	9 10	+47 30	172 16	+43 16	230
239	672	9 44	+47 30	170 59	+48 57	234
240	1348	10 18	+47 30	168 20	+54 27	238
241	709	10 52	+47 30	163 44	+59 37	242
242	700	11 25	+47 30	156 36	+64 04	246
243	1338	11 59	+47 30	145 37	+67 39	250
244	1408	12 33	+47 30	130 47	+69 39	254
245	1350	13 06	+47 30	114 44	+69 38	258
246	1593	13 40	+47 30	100 00	+67 34	262
247	120	14 14	+47 30	89 08	+63 56	266
248	1368	14 48	+47 30	81 56	+59 19	270
249	706	15 21	+47 30	77 33	+54 17	274
250	1404	15 55	+47 30	74 57	+48 47	276
251	1375	16 29	+48 00	74 24	+43 03	280
252	1370	17 03	+48 00	74 06	+37 23	284
253	769	17 37	+48 00	74 35	+31 42	288
254	130	18 11	+48 00	75 42	+26 06	290
255	770	18 45	+48 00	77 22	+20 38	294
256	814	19 19	+48 00	79 32	+15 20	296
257	283	19 53	+48 00	82 11	+10 16	298

FIELDS OF SURVEY ZONE +54°

FIELD No.	Survey Plate No.	Center of Field 1950.0 α	Center of Field 1950.0 δ	I.A.U. Galactic Coordinates λ	I.A.U. Galactic Coordinates β	Page No.
		h m	o '	o '	o '	
258	1309	5 12	+ 54 00	155 52	+ 9 05	300
259	664	5 50	+ 54 00	158 50	+ 13 51	302
260	984	6 28	+ 54 00	161 14	+ 18 56	304
261	971	7 06	+ 54 00	163 01	+ 24 16	306
262	985	7 43	+ 53 30	164 40	+ 29 33	310
263	679	8 21	+ 53 30	165 04	+ 35 11	314
264	982	8 59	+ 53 30	164 31	+ 40 49	318
265	681	9 37	+ 53 30	162 48	+ 46 20	322
266	1331	10 14	+ 53 30	159 40	+ 51 25	326
267	673	10 52	+ 53 30	154 28	+ 56 10	330
268	59	11 29	+ 53 30	147 01	+ 60 01	334
269	1389	12 07	+ 53 30	136 42	+ 62 46	338
270	729	12 44	+ 53 30	124 41	+ 63 53	342
271	675	13 22	+ 53 30	112 05	+ 63 12	346
272	1409	13 59	+ 53 30	101 26	+ 60 53	350
273	715	14 37	+ 53 30	93 06	+ 57 11	354
274	1096	15 15	+ 53 30	87 22	+ 52 36	358
275	1413	15 52	+ 53 30	83 49	+ 47 36	362
276	1101	16 30	+ 54 00	82 26	+ 42 03	366
277	765	17 08	+ 54 00	81 36	+ 36 30	370
278	1102	17 46	+ 54 00	81 44	+ 30 56	374
279	789	18 24	+ 54 00	82 42	+ 25 25	378
280	542	19 02	+ 54 00	84 21	+ 20 03	380
281	774	19 40	+ 54 00	86 37	+ 14 54	382
282	543	20 18	+ 54 30	89 53	+ 10 20	384

INTRODUCTION

INTRODUCTION

In this third volume of the catalogue the material is presented in essentially the same arrangement as in Volumes I and II. This arrangement has been described thoroughly in the introduction to the first volume, with some few remarks added in the second. The methods of reduction and construction have not been changed in any significant manner so that nothing of importance needs to be added here.

One particular fact, however, must be mentioned in this place. It concerns the

Overlaps

of the $6^{\circ} \times 6^{\circ}$ squares in Volume III. Due to the arrangements of the fields in the sky and owing to precession, these squares do not cover the entire area depicted in this volume. While, in general, the overlaps are quite sufficient, there are a few instances where small gaps between adjacent squares of consecutive zones were left open. These cases have been taken care of in the appropriate places by a footnote and, if necessary, by a special map of the area involved.

Large clusters

Two unusually large clusters of galaxies, each extending over several fields and partially into the 60° zone of Volume IV, are depicted on composite maps at the end of this volume.

Acknowledgments

The construction of this third volume has been supported to a great extent by a continued grant from the National Science Foundation. We are also grateful to the California Institute of Technology and its Graphic Arts Facilities for their cooperation and support in the production of this volume.

Our thanks go also to all those who kindly reported errors and omissions in Volumes I and II. A list of these corrections is provided at the end of this volume.

SYMBOLS USED ON THE CHARTS

GALAXIES

✖	$m_p \leq 11.0$	●	$13.1 \leq m_p \leq 14.0$
■	$11.1 \leq m_p \leq 12.0$	○	$14.1 \leq m_p \leq 15.0$
□	$12.1 \leq m_p \leq 13.0$	△	$15.1 \leq m_p \leq 15.7$

CLUSTERS OF GALAXIES

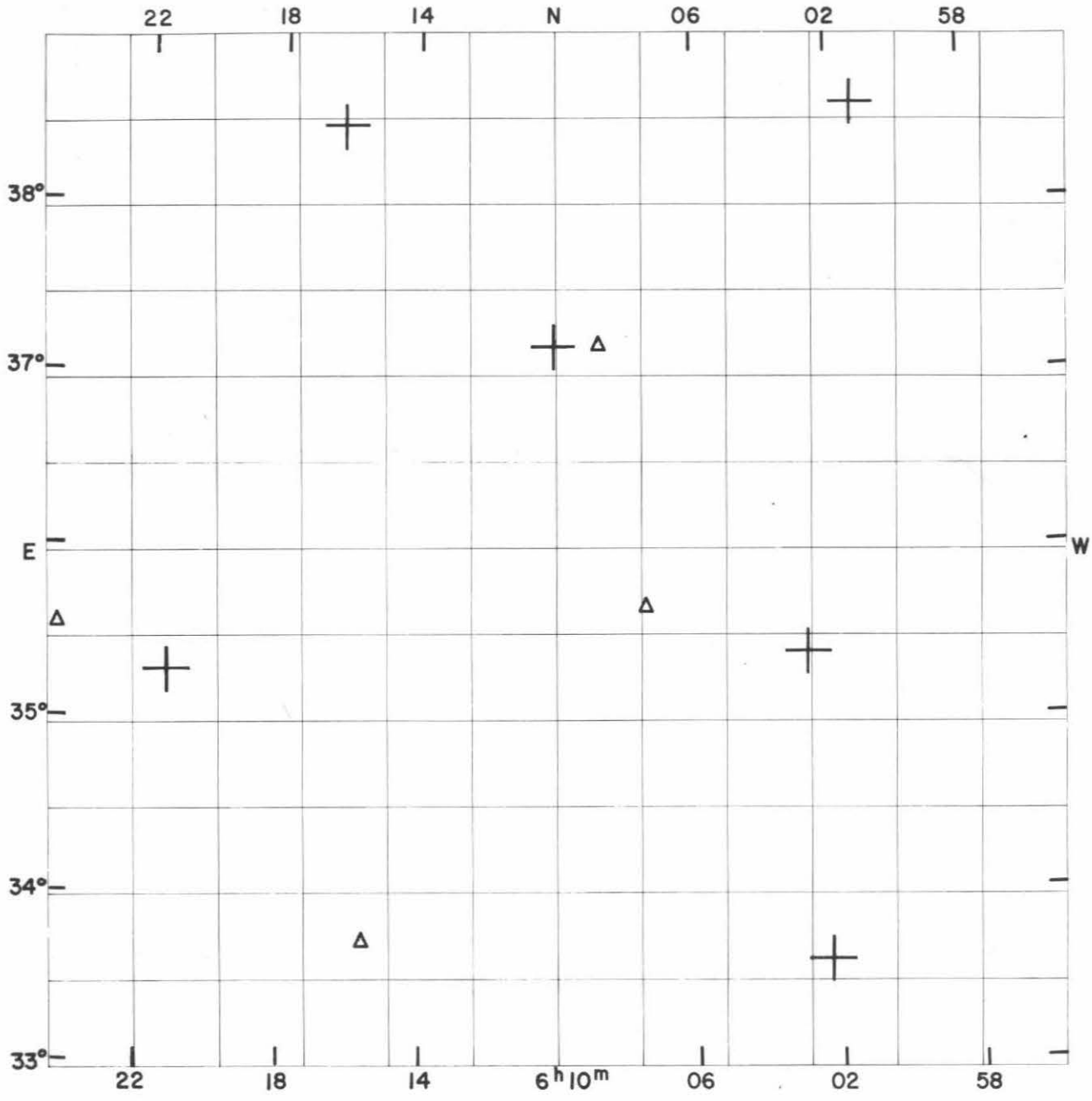
= Cluster No. 5 on the chart

GC STARS are marked by a cross: +

DISTANCES OF CLUSTERS

Near:		$V_s \leq 15{,}000$ km/sec
MD	= Medium distant:	$15{,}000 \text{ km/sec} < V_s \leq 30{,}000 \text{ km/sec}$
D	= Distant:	$30{,}000 \text{ km/sec} < V_s \leq 45{,}000 \text{ km/sec}$
VD	= Very distant:	$45{,}000 \text{ km/sec} < V_s \leq 60{,}000 \text{ km/sec}$
ED	= Extremely distant:	$60{,}000 \text{ km/sec} < V_s$

CATALOGUE



FIELD No. 174

6^h10^m $+36^o00'$

Survey Plate No. 942

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
7679	6 01 12.7	+ 38 34 44	6.81
7701	6 02 15.9	+ 33 36 14	6.10
7713	6 02 47.8	+ 35 23 50	6.11
7911	6 10 06.2	+ 37 10 24	6.58
8105	6 16 16.9	+ 38 27 27	7.10
8247	6 21 18.1	+ 35 17 00	6.88

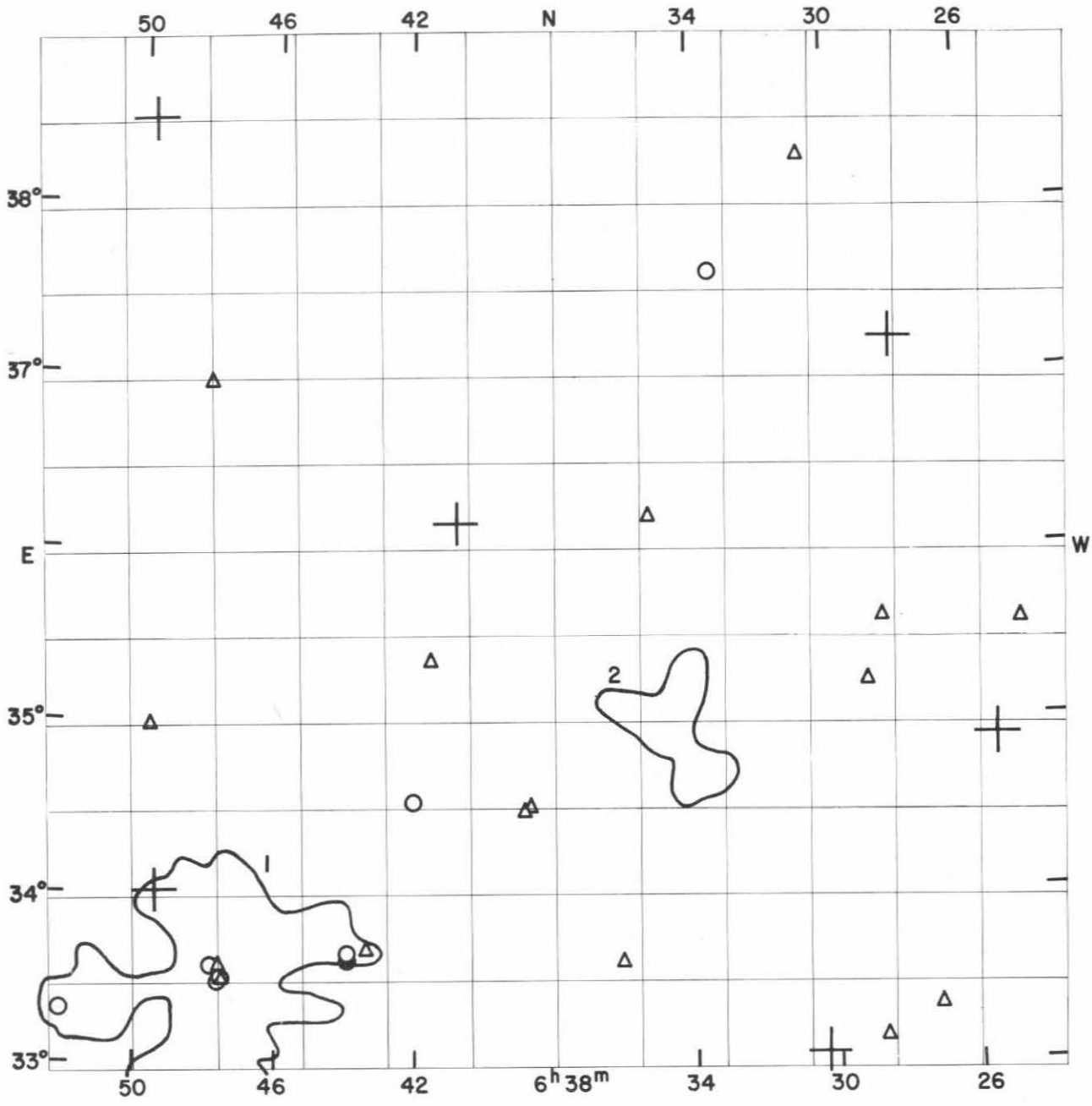
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart

No clusters in this field

GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
6 07.5	+35 40		15.5		
6 08.8	+37 10		15.6		
6 15.6	+33 44		15.7		
6 24.4	+35 33		15.7		



FIELD No. 175

6^h38^m + 36°00'

Survey Plate No. 1268

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
8372	6 25 22.7	+ 34 53 51	7.27
8445	6 28 07.5	+ 37 12 52	6.66
8509	6 30 25.9	+ 33 03 47	6.38
8785	6 40 50.9	+ 36 09 39	6.28
8989	6 49 29.7	+ 34 01 25	3.64
8997	6 49 47.8	+ 38 30 09	6.32

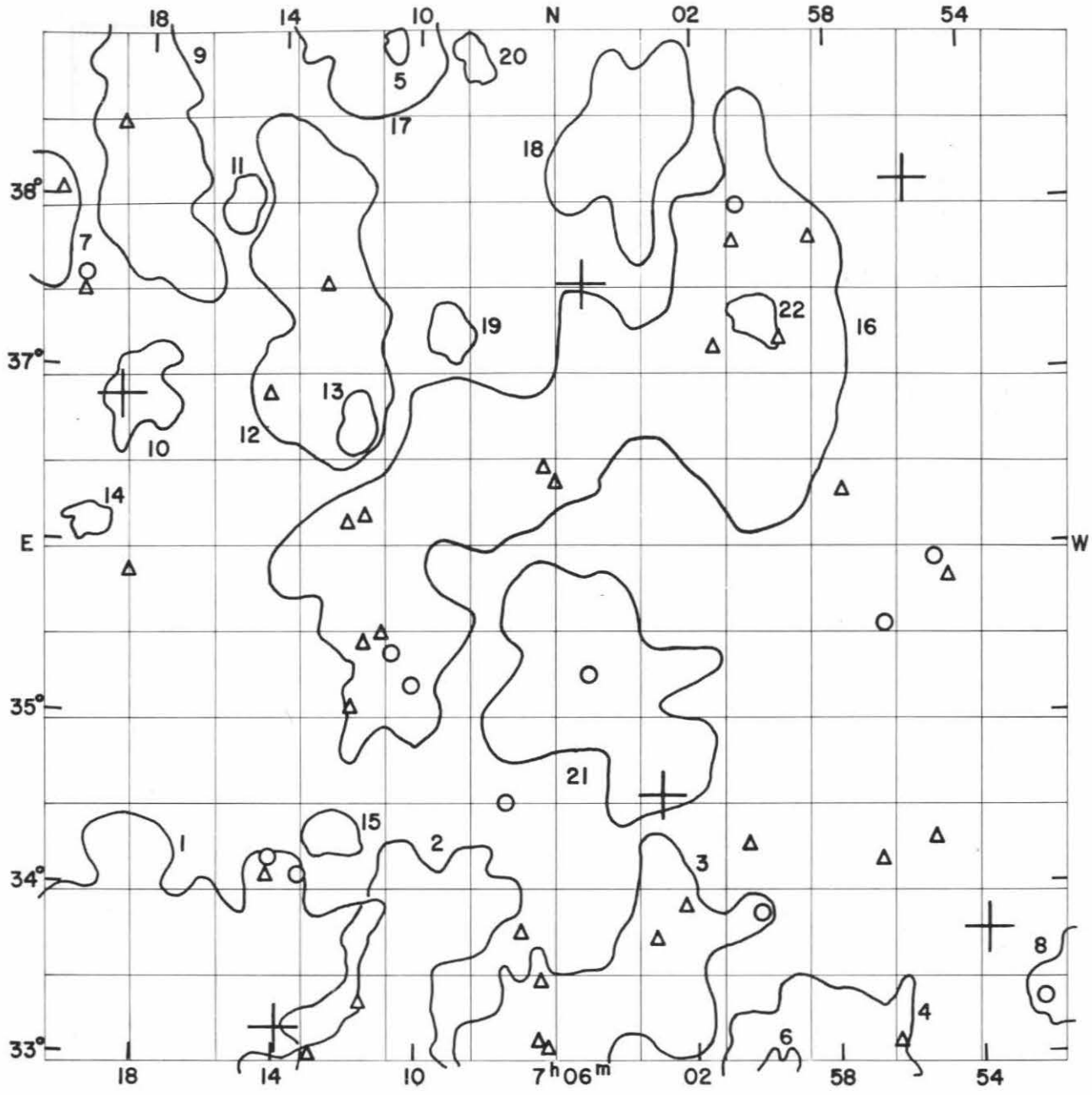
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0634.5 + 3457	compact	72	3.3	MD	2
0647.4 + 3323	open	167	7.5	Near	1

Average number of galaxies per cluster = 119.5

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
6 24.4	+ 35 33		15.7		
6 27.2	+ 33 20		15.7		
6 28.6	+ 35 35		15.1		
6 28.7	+ 33 09		15.5		
6 29.0	+ 35 14		15.4		
6 30.7	+ 38 16		15.4		
6 33.4	+ 37 37		14.8		
6 35.3	+ 36 12		15.6		
6 36.1	+ 33 37		15.5		
6 38.8	+ 34 31		15.6		
6 38.9	+ 34 30		15.5		
6 41.5	+ 35 22		15.7		
6 42.0	+ 34 32		14.9		
6 43.4	+ 33 41		15.2		diffuse spiral
6 44.0	+ 33 38	2274	13.6		
6 44.0	+ 33 40	2275	14.5		
6 47.5	+ 33 31	2288	15.5		
6 47.5	+ 33 32	2289	14.6		
6 47.6	+ 33 30	2290	14.6		
6 47.6	+ 33 35	2291	15.3		compact
6 47.8	+ 33 35	2294	15.0		
6 48.0	+ 36 58		15.3		compact
6 49.6	+ 34 59		15.2		compact
6 52.2	+ 33 20		14.8		



FIELD No. 176

7^h06^m $+36^\circ00'$

Survey Plate No. 889

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ′ ″	
9101	6 53 43.6	+ 33 14 51	6.01
9151	6 55 38.6	+ 38 07 22	6.15
9354	7 02 54.0	+ 34 33 07	5.60
9412	7 05 13.5	+ 37 31 31	6.32
9655	7 13 54.8	+ 33 11 04	6.90
9796	7 18 42.4	+ 36 51 23	5.21

CLUSTERS OF GALAXIES

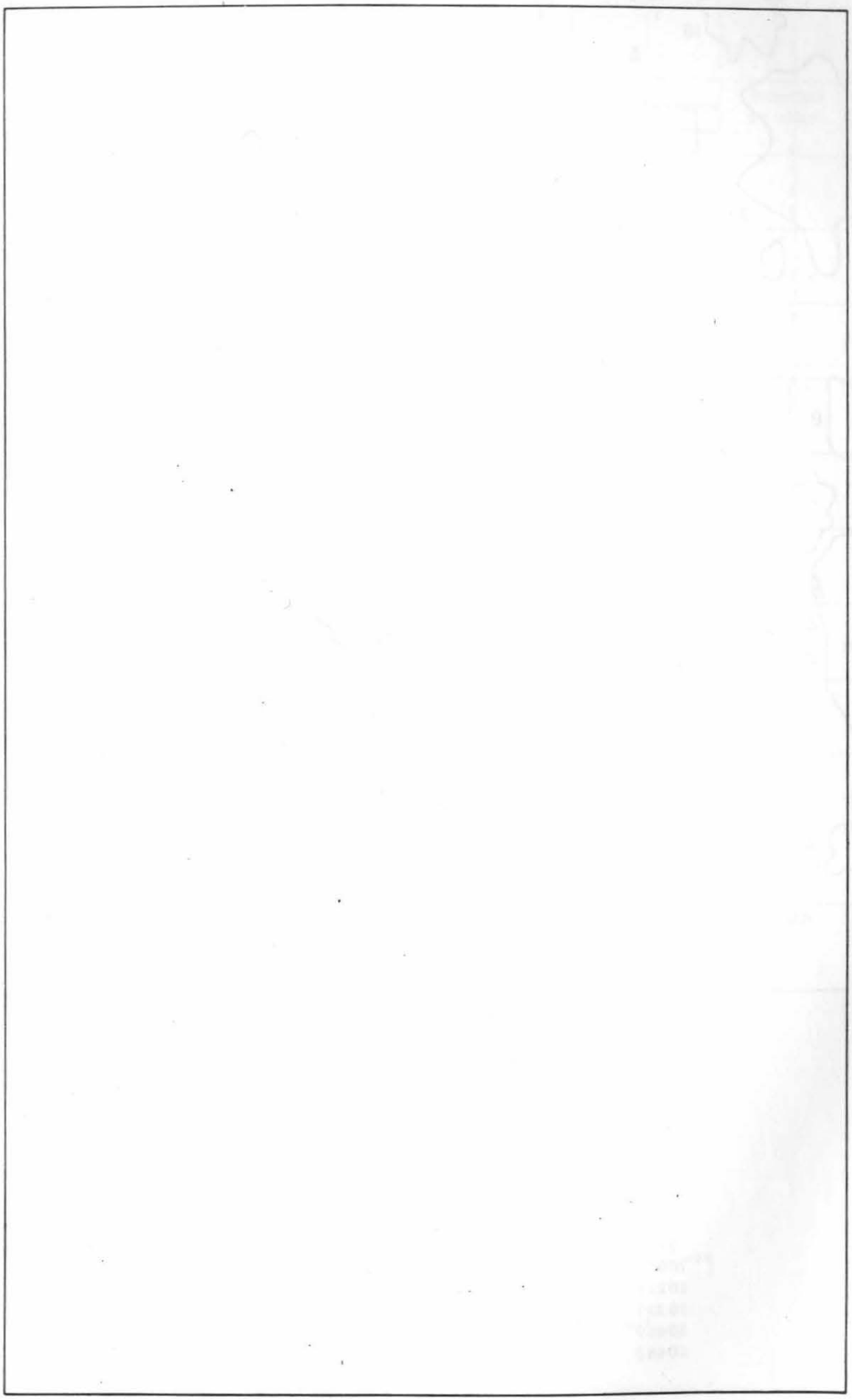
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0647.4 + 3323	open	167	7.5	Near	8
0658.7 + 3300	medium compact	165	5.5	MD	4
0659.8 + 3253	medium compact	74	1.6	VD	6
0700.1 + 3719	medium compact	82	1.5	VD	22
0704.0 + 3821	medium compact	108	4.9	MD	18
0704.7 + 3510	medium compact	132	6.8	MD	21
0705.4 + 3642	open	236	12.7	Near	16
0706.6 + 3221	open	360	11.2	Near	3
0708.4 + 3849	medium compact	80	1.2	VD	20
0709.1 + 3714	medium compact	104	1.7	VD	19
0710.7 + 3855	compact	57	0.9	ED	5
0711.0 + 3311	medium compact	289	7.3	MD	2
0711.2 + 3852	medium compact	119	4.3	D	17
0711.8 + 3641	compact	139	1.6	VD	13
0712.4 + 3419	medium compact	136	1.6	ED	15
0713.0 + 3725	medium compact	185	6.7	MD	12
0715.2 + 3757	compact	89	1.6	ED	11
0718.0 + 3650	medium compact	149	2.7	VD	10
0718.0 + 3820	medium compact	106	5.9	MD	9
0718.6 + 3249	open	362	14.7	Near	1
0719.5 + 3606	medium compact	92	1.2	ED	14
0724.3 + 3818	medium compact	205	8.3	MD	7

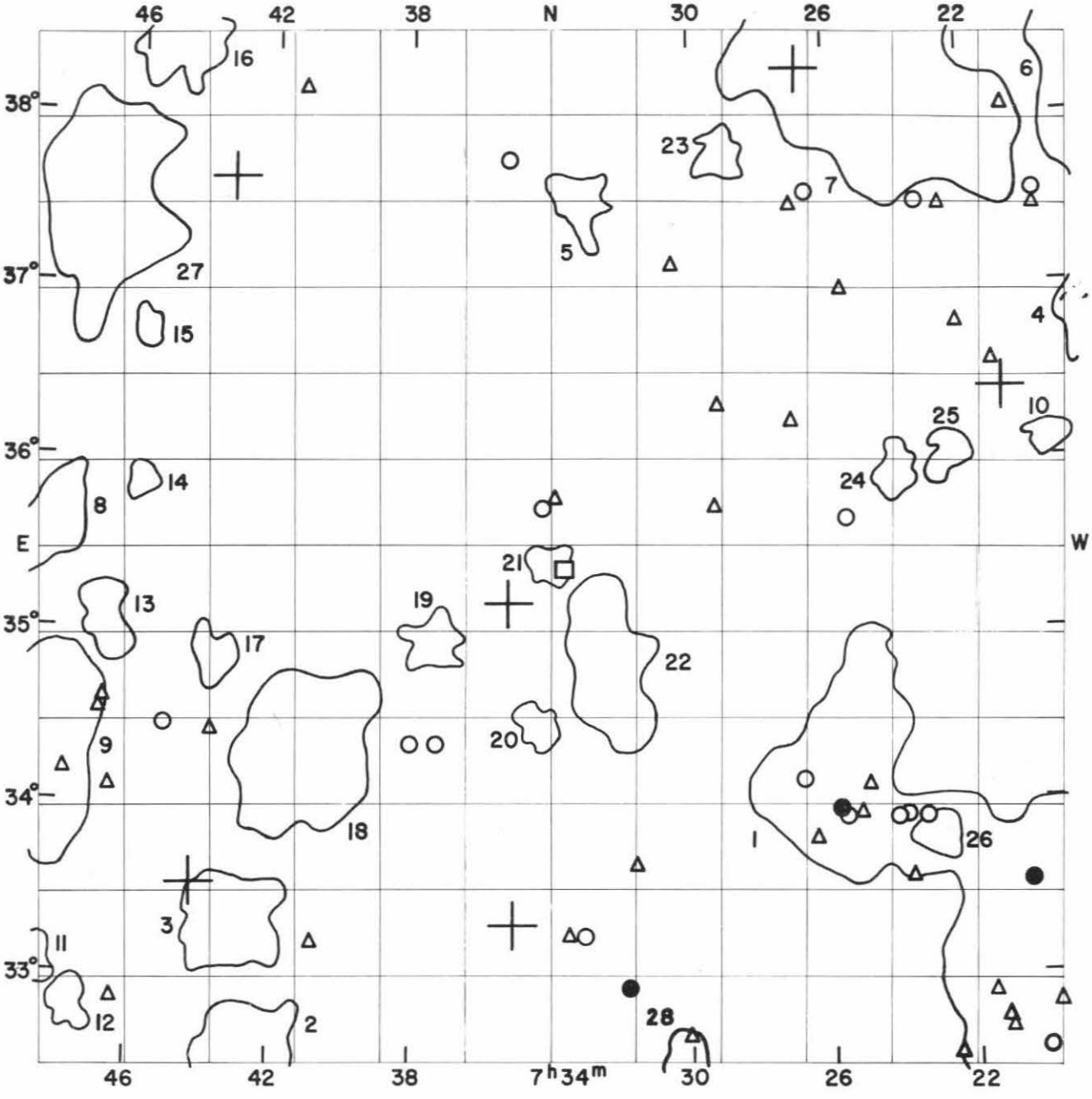
Average number of galaxies per cluster = 156.2

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
6 52.2	+33 20		14.8		
6 54.7	+35 48		15.4		
6 55.1	+35 55		14.8		
6 55.2	+34 17		15.3		diffuse spiral
6 56.3	+33 05		15.7		
6 56.5	+35 31	2175*	15.0		diffuse spiral
6 56.7	+34 09		15.6		
6 57.7	+36 18		15.6		
6 58.5	+37 48		15.2		
6 59.5	+37 12		15.1		
7 00.2	+33 51		14.7		double system
7 00.5	+34 16		15.6		
7 00.7	+37 59		15.0		
7 00.8	+37 46		15.5		
7 01.4	+37 08		15.3		
7 02.2	+33 54		15.4		diffuse spiral
7 03.1	+33 42		15.5		compact
7 05.0	+35 15	2333	14.1		
7 06.0	+36 22		15.4		very diffuse spiral
7 06.2	+33 04		15.7		
7 06.3	+36 27		15.5		
7 06.4	+33 27		15.4		
7 06.5	+33 07		15.6		very compact
7 07.0	+33 45		15.6		
7 07.5	+34 30		14.4		
7 10.1	+35 12		14.3		

Position α 1950 δ	NGC IC*	m_p	V_s km/sec	Remarks
h m o '				
7 10.8 +35 22		14.5		
7 11.1 +35 29		15.5		
7 11.6 +33 20		15.2		
7 11.6 +35 25		15.7		
7 11.6 +36 10		15.1		
7 11.9 +35 03		15.6		
7 12.1 +36 07		15.4		
7 12.7 +37 30		15.7		diffuse
7 13.0 +33 01		15.3		
7 13.4 +34 05		14.3		
7 14.2 +34 04		15.5		
7 14.2 +34 10		14.9		
7 14.3 +36 52		15.6		compact
7 18.4 +35 50		15.4		
7 18.9 +38 26		15.5		
7 19.8 +37 26		15.5		
7 19.8 +37 33		15.0		
7 20.7 +38 02		15.6		compact





FIELD No. 177

7^h34^m $+35^o30'$

Survey Plate No. 1336

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
9858	7 20 57.3	+ 36 24 34	6.97
10018	7 26 47.8	+ 38 16 30	6.86
10230	7 35 07.0	+ 33 18 03	6.91
10237	7 35 16.2	+ 35 09 45	5.61
10460	7 43 19.3	+ 37 38 25	5.45
10482	7 44 17.2	+ 33 32 25	5.29

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0718.0 + 3650	medium compact	149	2.7	VD	4
0718.0 + 3820	medium compact	106	5.9	MD	6
0718.6 + 3249	open	362	14.7	Near	1
0719.5 + 3606	medium compact	92	1.2	ED	10
0722.6 + 3600	compact	59	1.5	VD	25
0723.0 + 3347	compact	58	1.5	VD	26
0724.1 + 3555	medium compact	60	1.5	VD	24
0724.3 + 3818	medium compact	205	8.3	MD	7
0729.1 + 3746	compact	83	1.6	VD	23
0731.9 + 3125	open	178	8.0	Near	28
0732.4 + 3447	medium compact	64	3.8	D	22
0733.1 + 3729	medium compact	67	1.8	D	5
0734.0 + 3524	compact	93	1.4	ED	21
0734.4 + 3426	medium compact	84	1.4	VD	20
0737.4 + 3455	compact	93	1.8	VD	19
0741.0 + 3417	medium compact	141	4.9	MD	18
0742.4 + 3232	open	86	3.3	MD	2
0743.0 + 3317	open	90	3.2	D	3
0743.6 + 3450	medium compact	83	1.6	D	17
0745.0 + 3825	medium compact	82	2.8	D	16
0745.7 + 3644	compact	63	1.1	VD	15
0745.8 + 3550	compact	62	1.0	VD	14
0746.7 + 3502	medium compact	108	1.9	D	13
0747.1 + 3729	open	87	5.3	MD	27
0747.6 + 3248	medium compact	81	1.5	MD	12
0748.5 + 3302	compact	80	1.5	VD	11
0748.7 + 3531	medium compact	107	2.9	D	8
0749.0 + 3419	medium compact	117	5.6	D	9

Average number of galaxies per cluster = 105.0

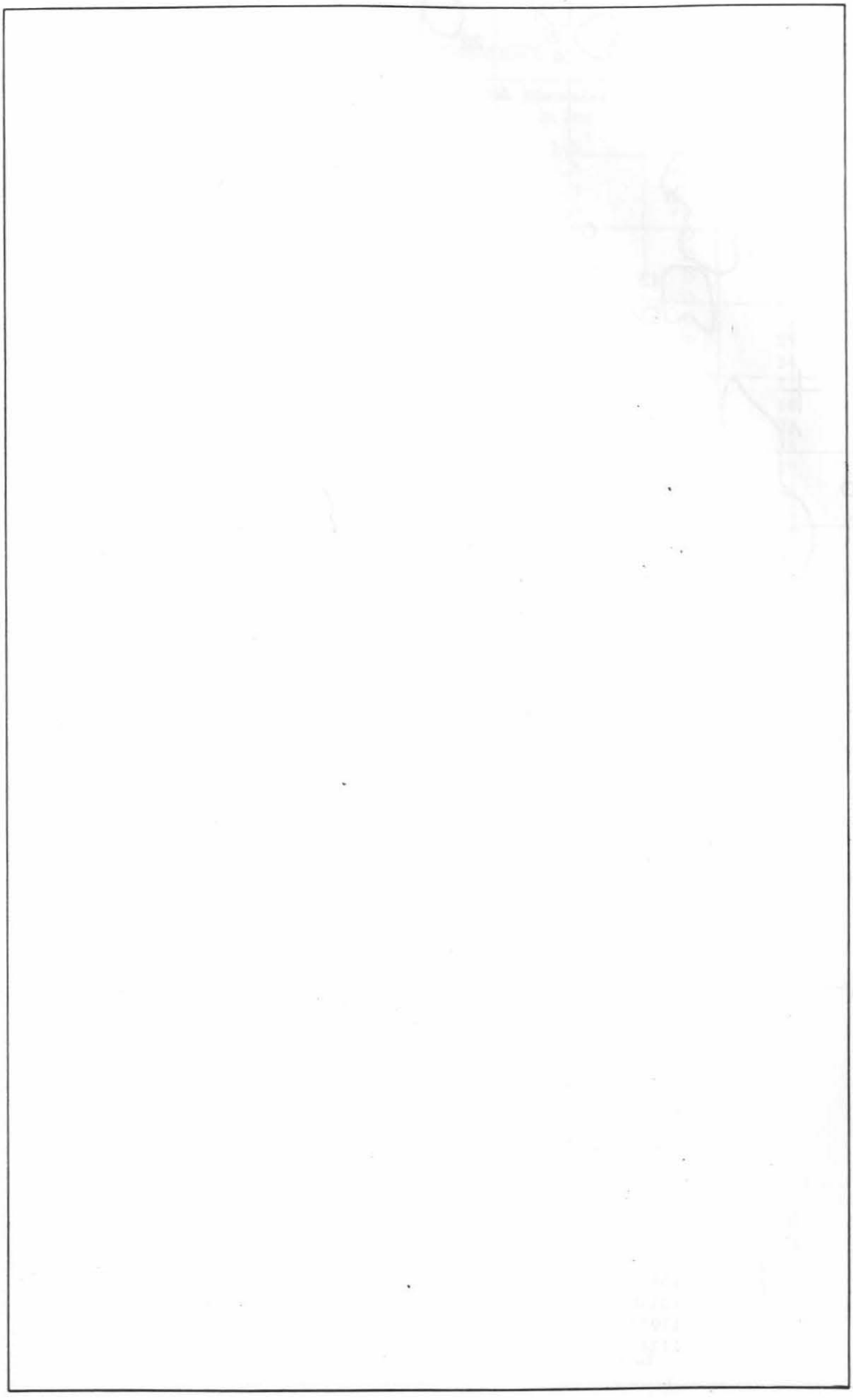
GALAXIES

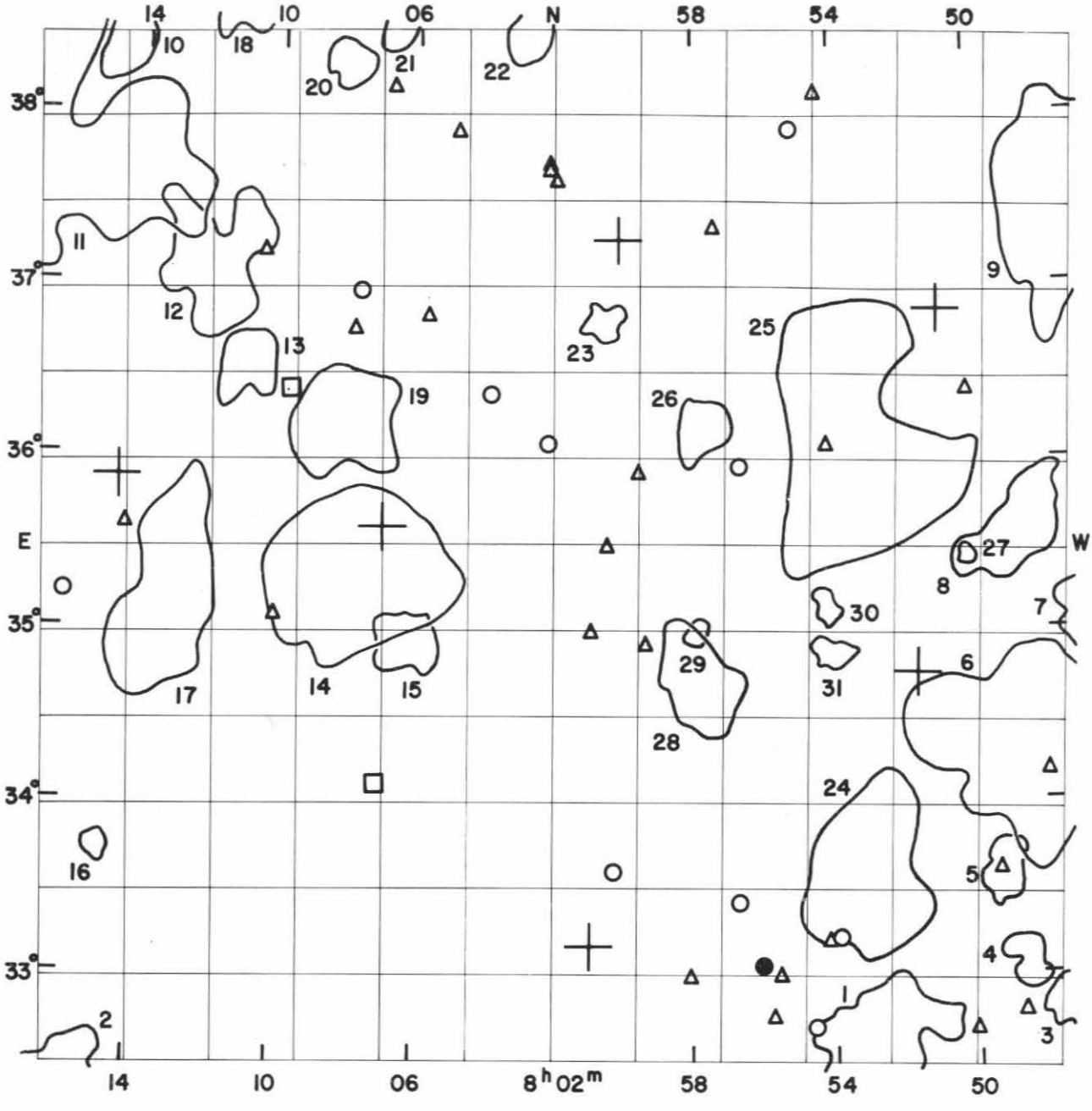
Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
7 19.7	+32 51		15.7		very diffuse
7 19.8	+37 26		15.5		
7 19.8	+37 33		15.0		
7 20.0	+32 36	2185*	14.9		
7 20.5	+33 31		13.7		double system
7 20.7	+38 02		15.6		compact
7 21.0	+32 42		15.3		
7 21.2	+32 45		15.6		
7 21.2	+36 33		15.7		star superposed
7 21.5	+32 55		15.3		
7 22.2	+36 46		15.1		
7 22.6	+32 33		15.6		
7 22.6	+37 27		15.5		
7 23.3	+33 54	2373	14.5		
7 23.3	+37 28		14.6		double system, jets
7 23.8	+33 34		15.6		
7 23.9	+33 55	2375	14.7		
7 24.2	+33 54	2378=2379	14.9	+4030	very compact
7 25.0	+34 05		15.5		
7 25.2	+33 56	2385	15.2		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
7 25.5	+35 39		14.9		
7 25.6	+33 55	2388	14.7		
7 25.6	+36 58	2387	15.3		double system
7 25.8	+33 57	2389	13.5	+3816	
7 26.5	+33 47		15.3		
7 26.5	+37 33	2190*	14.8		
7 26.8	+34 07	2393	14.9		
7 27.0	+37 28		15.7		diffuse spiral
7 27.1	+36 12		15.3		diffuse spiral
7 29.2	+36 17		15.5		
7 29.3	+35 43		15.4		
7 30.0	+32 40		15.4		
7 30.5	+37 07		15.7		very diffuse spiral
7 31.6	+33 38		15.7		
7 31.8	+32 56	2410	13.9		
7 33.0	+33 14	2201*	14.9		
7 33.5	+33 14		15.5		
7 33.6	+35 21	2415	12.5	+3822	
7 33.9	+35 46		15.3		
7 34.3	+35 43		14.2		
7 35.2	+37 45		15.0		
7 37.3	+34 20	2203*	14.5		
7 38.0	+34 20	2204*	14.6		
7 40.8	+33 11		15.7		
7 41.2	+38 09		15.7		
7 43.8	+34 25		15.7		
7 45.0	+34 28		14.6		
7 46.4	+32 51		15.4		
7 46.6	+34 05	2207*	15.4		
7 46.8	+34 37		15.6		
7 46.9	+34 33		15.5		very compact, long jet
7 47.9	+34 11		15.6		extremely diffuse

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
2379	-	-	14.70	S1	14.6	E0	-	-
2389	-	-	13.28	Sc	13.3	Sc	-	-





FIELD No. 178

8^h02^m $+35^o30'$

Survey Plate No. 989

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
10662	7 50 53.4	+ 36 52 22	7.12
10682	7 51 34.5	+ 34 45 15	7.72
10902	8 00 09.3	+ 37 16 41	7.12
10930	8 00 57.3	+ 33 10 21	6.61
11073	8 06 56.5	+ 35 36 24	6.64
11281	8 14 36.8	+ 35 53 04	6.91

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0746.7 + 3502	medium compact	108	1.9	D	7
0747.1 + 3729	open	87	5.3	MD	9
0747.6 + 3248	medium compact	81	1.5	MD	3
0748.5 + 3302	compact	80	1.5	VD	4
0748.7 + 3531	medium compact	107	2.9	D	8
0749.0 + 3419	medium compact	117	5.6	D	6
0749.2 + 3335	medium compact	74	1.6	D	5
0750.1 + 3525	compact	48	0.5	ED	27
0752.7 + 3236	open	158	3.8	D	1
0753.0 + 3606	open	167	6.6	D	25
0753.1 + 3331	medium compact	107	4.7	MD	24
0754.0 + 3450	medium compact	58	1.2	ED	31
0754.1 + 3506	medium compact	55	0.9	ED	30
0757.7 + 3610	compact	110	1.8	ED	26
0757.8 + 3441	medium compact	91	2.9	D	28
0757.9 + 3458	compact	48	0.8	ED	29
0800.5 + 3646	medium compact	64	1.1	ED	23
0802.8 + 3827	medium compact	111	1.7	ED	22
0806.2 + 3455	medium compact	165	2.0	E	15
0806.7 + 3831	medium compact	76	1.3	ED	21
0807.7 + 3520	medium compact	177	5.5	MD	14
0808.0 + 3612	medium compact	103	3.5	D	19
0808.1 + 3817	medium compact	107	1.5	VD	20
0810.9 + 3631	medium compact	98	2.0	D	13
0811.2 + 3838	medium compact	108	1.8	ED	18
0812.0 + 3705	open	109	3.6	D	12
0813.0 + 3509	open	121	4.5	D	17
0814.7 + 3825	medium compact	73	1.9	VD	10
0814.9 + 3344	compact	64	0.8	ED	16
0816.0 + 3155	open	324	5.6	D	2
0817.2 + 3802	open	374	9.0	MD	11

Average number of galaxies per cluster = 115.2

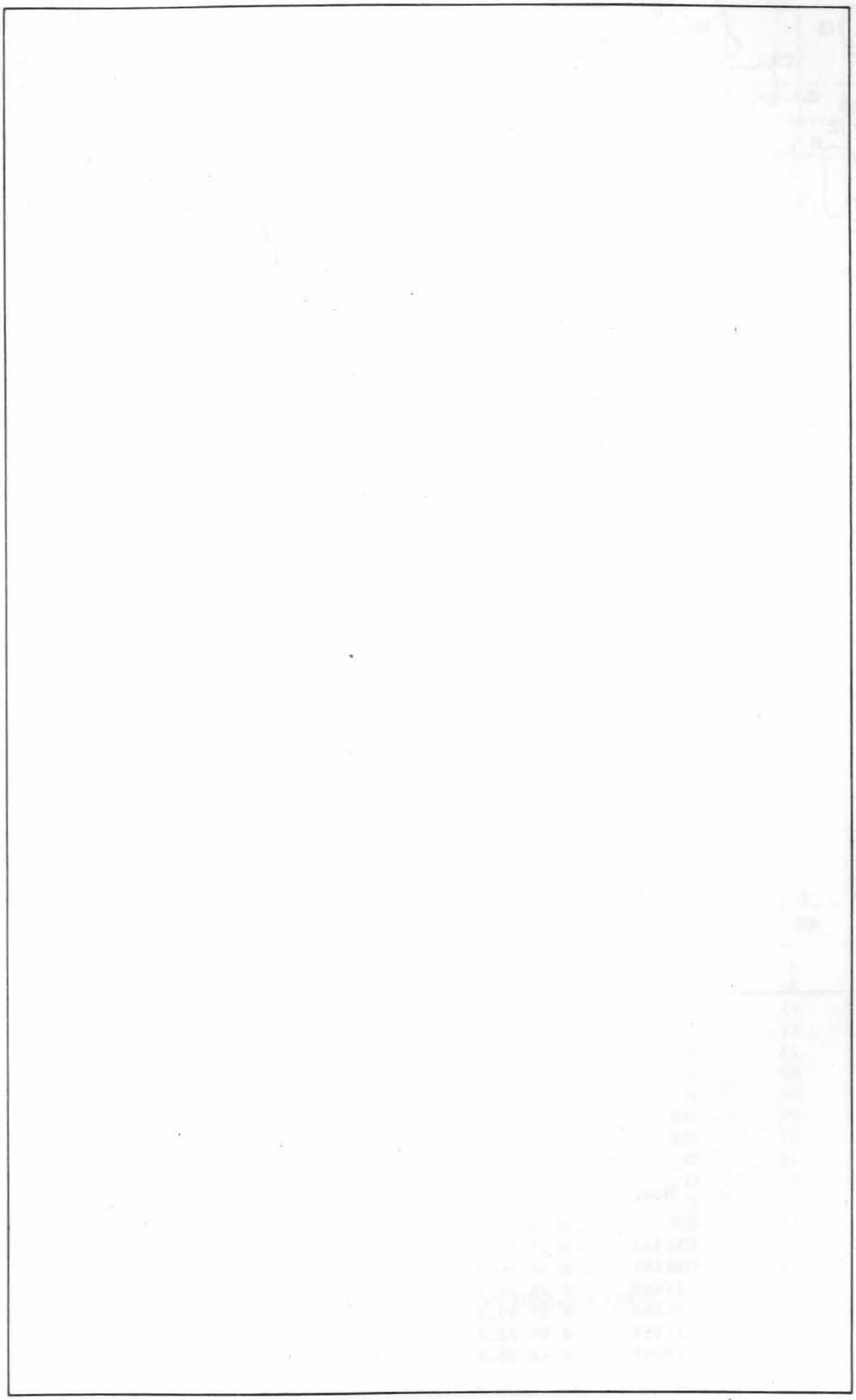
GALAXIES

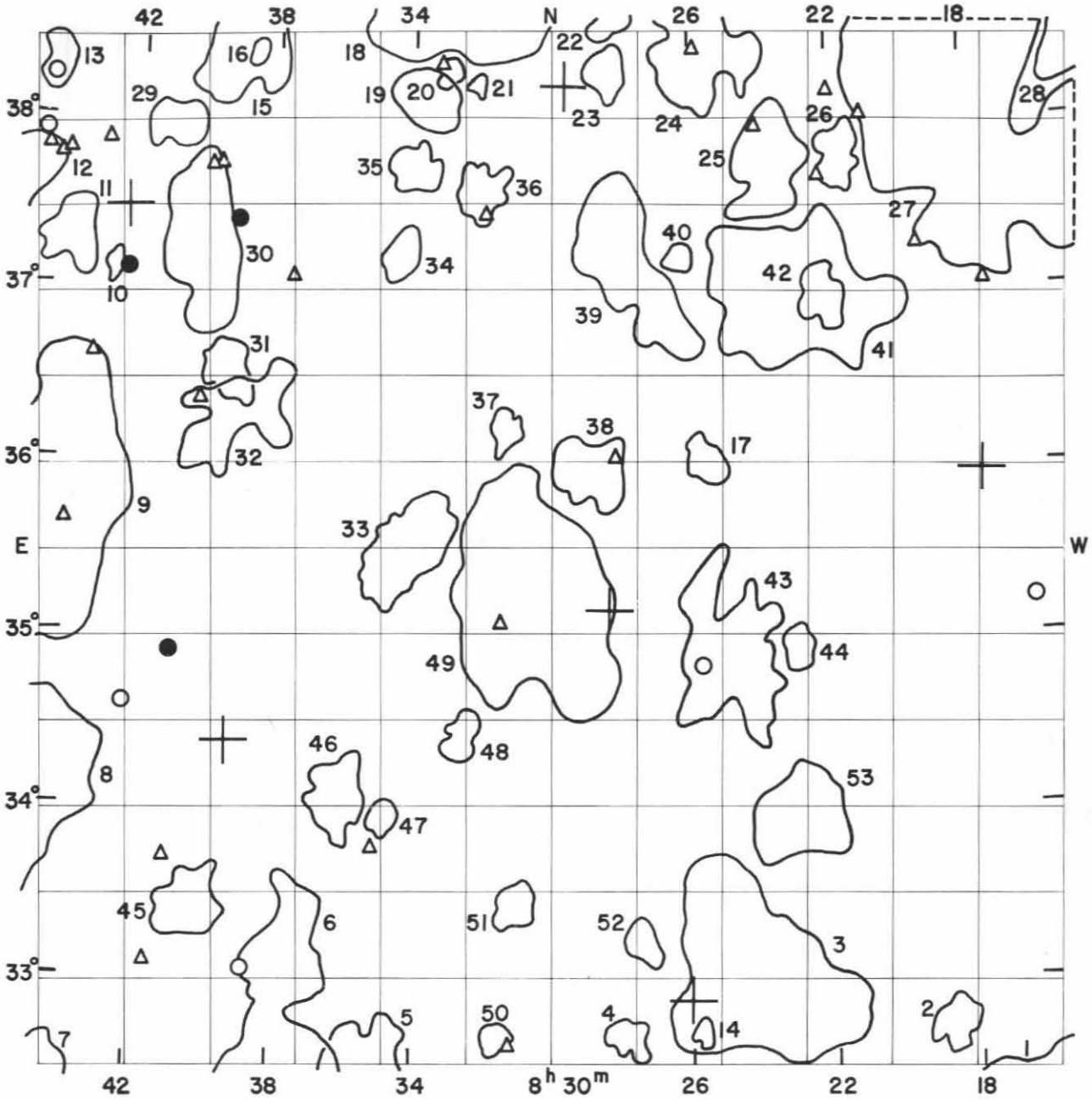
Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
7 47.9	+34 11		15.6		extremely diffuse
7 48.7	+32 47		15.7		diffuse
7 49.3	+33 36		15.3		
7 50.1	+32 40		15.7		
7 50.1	+36 24		15.4		
7 53.8	+33 13		14.7		
7 54.1	+33 12		15.2		
7 54.2	+36 04		15.5		diffuse
7 54.4	+38 08		15.5		
7 54.5	+32 42	2211*	14.5		
7 55.1	+37 55	2484	14.9		
7 55.5	+33 00		15.6		
7 55.7	+32 45	2212*	15.3		
7 56.0	+33 03		13.5		
7 56.6	+35 57		14.9		
7 56.7	+33 26	2214*	14.4		
7 57.4	+37 20		15.5		diffuse spiral

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
7 58.0	+32 59		15.7		
7 59.4	+34 55		15.2		
7 59.6	+35 55		15.6		
8 00.3	+33 36		14.7		
8 00.5	+35 29		15.4		
8 00.9	+35 00		15.4		
8 01.9	+37 36	2222*	15.3		
8 02.1	+37 42		15.2		
8 02.2	+36 05	2225*	15.0		
8 02.2	+37 41		15.7		very compact
8 03.8	+36 23		14.8		
8 04.8	+37 55		15.6		
8 05.7	+36 50		15.3		compact
8 06.8	+38 10		15.4		
8 07.0	+34 06	2532	12.9	+5153	
8 07.7	+36 58		14.7		system with plume + jet
8 07.8	+36 45		15.5		
8 09.7	+36 24	2543≡2232*	12.7		
8 10.0	+35 05		15.1		
8 10.5	+37 12		15.5		
8 14.4	+35 36		15.1		
8 16.2	+35 13		14.6		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
2532	-	-	13.05	Sc	12.9	Sc	-	-





FIELD No. 179

8^h30^m $+35^o30'$

Survey Plate No. 648

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
11364	8 17 34.7	+ 35 56 16	6.93
11591	8 26 04.8	+ 32 51 34	6.60
11649	8 28 24.1	+ 35 08 07	7.32
11684	8 29 40.3	+ 38 11 22	6.05
11958	8 39 22.2	+ 34 22 18	7.37
12045	8 42 25.8	+ 37 28 29	6.91

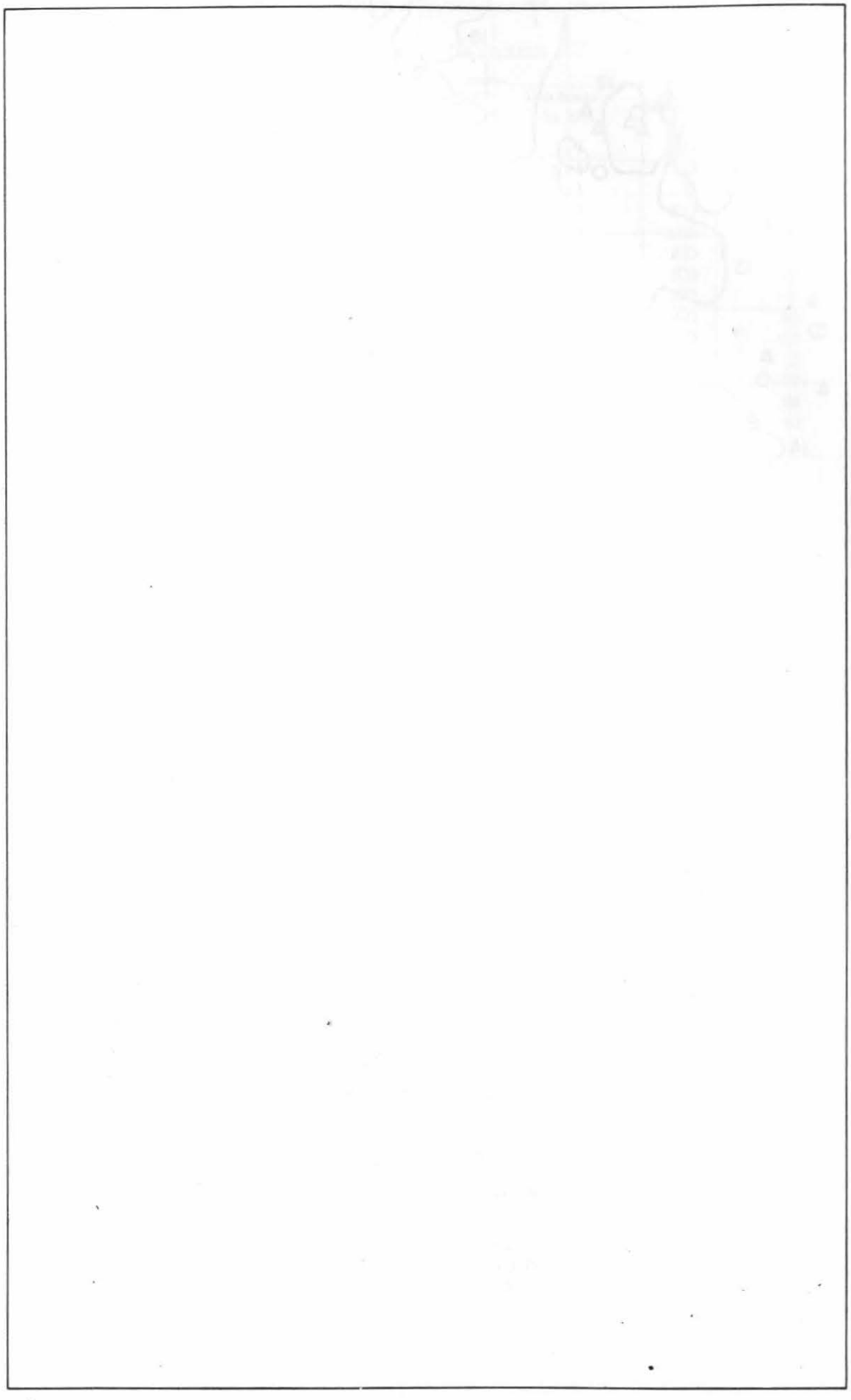
CLUSTERS OF GALAXIES

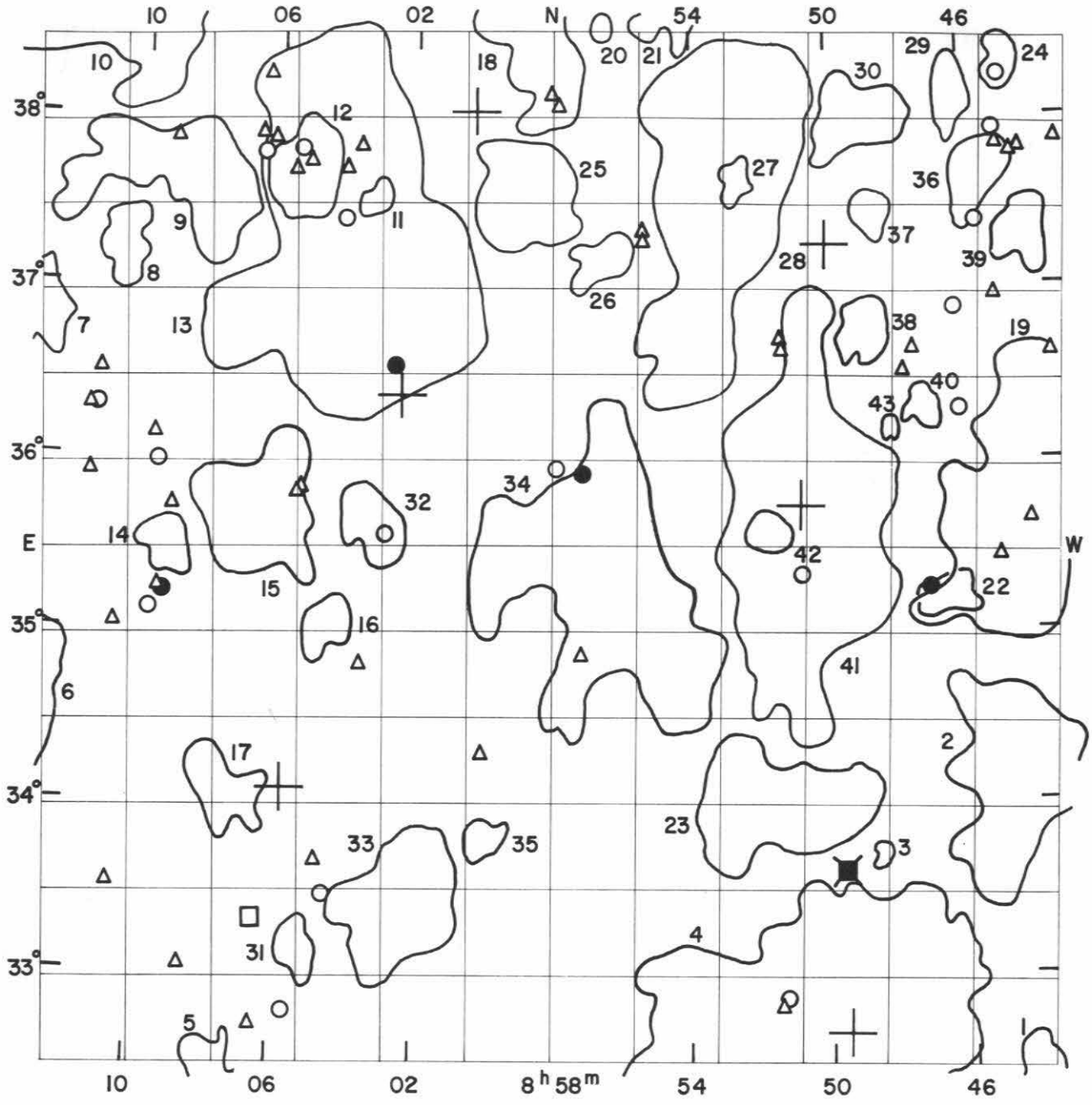
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0814.7 + 3825	medium compact	73	1.9	VD	28
0816.0 + 3155	open	324	5.6	D	1
0817.2 + 3802	open	374	9.0	MD	27
0818.7 + 3241	compact	105	1.4	VD	2
0821.6 + 3745	compact	107	1.6	ED	26
0822.1 + 3658	medium compact	124	1.7	ED	42
0823.0 + 3355	medium compact	76	3.0	VD	53
0823.0 + 3455	medium compact	79	1.2	ED	44
0823.0 + 3658	open	125	5.2	D	41
0823.6 + 3744	open	103	2.7	VD	25
0824.1 + 3258	open	175	5.7	D	3
0824.9 + 3451	medium compact	162	4.1	VD	43
0825.6 + 3600	compact	92	1.3	ED	17
0825.6 + 3826	compact	188	3.5	ED	24
0825.8 + 3240	compact	49	0.7	ED	14
0826.4 + 3710	compact	76	0.8	ED	40
0827.4 + 3311	compact	91	1.2	ED	52
0827.7 + 3707	compact	159	3.8	VD	39
0827.9 + 3236	medium compact	102	1.3	VD	4
0828.3 + 3840	compact	55	1.5	VD	22
0828.5 + 3815	medium compact	89	1.4	ED	23
0828.9 + 3557	medium compact	205	2.2	ED	38
0830.4 + 3510	open	129	6.2	MD	49
0831.0 + 3324	compact	112	1.3	ED	51
0831.3 + 3610	medium compact	93	1.2	ED	37
0831.6 + 3238	compact	78	1.0	ED	50
0832.1 + 3734	open	125	1.7	ED	36
0832.2 + 3811	medium compact	45	0.5	ED	21
0832.2 + 3845	medium compact	130	5.5	Near	18
0832.6 + 3424	compact	80	1.2	ED	48
0833.0 + 3815	compact	47	0.8	ED	20
0833.8 + 3806	compact	160	1.9	ED	19
0834.0 + 3743	open	120	1.6	ED	35
0834.2 + 3529	medium compact	160	2.8	ED	33
0834.5 + 3711	compact	94	1.3	ED	34
0834.9 + 3355	compact	77	1.0	ED	47
0835.4 + 3225	medium compact	127	3.2	D	5
0836.1 + 3401	medium compact	64	2.0	VD	46
0837.6 + 3238	medium compact	329	5.0	MD	6
0838.6 + 3823	compact	47	0.6	ED	16
0839.0 + 3824	compact	240	2.9	VD	15
0839.2 + 3616	open	89	2.9	MD	32
0839.5 + 3631	compact	122	1.7	ED	31
0840.3 + 3323	compact	83	2.0	ED	45
0840.3 + 3717	open	87	3.7	D	30
0841.1 + 3758	medium compact	152	1.7	ED	29
0842.9 + 3708	compact	89	0.7	ED	10
0844.1 + 3718	medium compact	105	1.9	D	11
0844.4 + 3542	medium compact	148	6.5	D	9
0844.5 + 3208	open	171	3.3	D	7
0844.7 + 3819	compact	107	1.3	ED	13
0844.9 + 3407	medium compact	121	5.2	MD	8
0845.5 + 3740	compact	119	1.9	ED	12

Average number of galaxies per cluster = 124.2

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
8 16.2	+ 35 13		14.6		
8 17.4	+ 37 02		15.7		
8 19.4	+ 37 16		15.5		
8 20.9	+ 38 01		15.5		
8 21.9	+ 38 09		15.4		
8 22.3	+ 37 40		15.6		
8 24.1	+ 37 56		15.2		
8 25.7	+ 34 50		14.6		
8 25.8	+ 38 24		15.1		
8 28.2	+ 36 01		15.7		
8 31.3	+ 32 37	2384*	15.3		double system
8 31.5	+ 35 05		15.7		compact
8 31.9	+ 37 26	2385*	15.1		
8 33.2	+ 38 18		15.5		compact
8 35.1	+ 33 45		15.6		
8 37.5	+ 37 05		15.7		
8 38.7	+ 33 03		14.5		
8 39.2	+ 37 23	2638	13.7		
8 39.7	+ 37 43		15.2		
8 39.9	+ 37 42		15.7		
8 40.2	+ 36 22		15.5		
8 40.9	+ 34 54	2649	13.1		
8 41.0	+ 33 42		15.2		
8 41.5	+ 33 05		15.6		very compact
8 42.2	+ 34 37		14.7		
8 42.4	+ 37 07		13.8		compact
8 43.0	+ 37 52		15.4		diffuse
8 43.3	+ 36 37		15.6		
8 44.0	+ 35 39		15.7		
8 44.1	+ 37 49		15.7		
8 44.4	+ 37 47		15.7		compact
8 44.7	+ 38 15	2400*	15.0		
8 44.8	+ 37 50		15.6		
8 44.9	+ 37 56	2401*	15.0		compact





FIELD No. 180

8^h58^m + 35°30'

Survey Plate No. 1342

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
12242	8 49 29.6	+ 32 39 46	5.75
12255	8 50 01.1	+ 37 15 42	7.18
12272	8 50 47.1	+ 35 43 43	6.02
12505	9 00 17.1	+ 38 02 30	7.10
12546	9 02 26.1	+ 36 22 51	6.88
12613	9 05 47.3	+ 34 05 12	5.95

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0844.1 + 3718	medium compact	105	1.9	D	39
0844.4 + 3542	medium compact	148	6.5	D	19
0844.5 + 3208	open	171	3.3	D	1
0844.7 + 3819	compact	107	1.3	ED	24
0844.9 + 3407	medium compact	121	5.2	MD	2
0845.5 + 3740	compact	119	1.9	ED	36
0846.2 + 3809	medium compact	144	1.6	ED	29
0846.6 + 3512	medium compact	118	1.6	ED	22
0847.2 + 3617	compact	135	1.2	ED	40
0848.2 + 3610	compact	53	0.6	ED	43
0848.5 + 3341	compact	46	0.6	ED	3
0848.7 + 3727	compact	99	1.4	VD	37
0848.9 + 3645	medium compact	147	1.9	ED	38
0849.0 + 3800	medium compact	126	2.7	VD	30
0850.5 + 3237	open	510	9.8	MD	4
0850.6 + 3536	open	246	8.0	MD	41
0851.5 + 3358	open	102	4.5	D	23
0851.8 + 3534	medium compact	79	1.3	VD	42
0852.7 + 3739	medium compact	76	1.1	ED	27
0853.1 + 3728	medium compact	324	7.2	MD	28
0855.1 + 3918	medium compact	375	5.5	D	21
0856.4 + 3520	medium compact	359	7.5	VD	34
0856.6 + 3710	open	104	1.7	ED	26
0856.7 + 3832	medium compact	58	0.8	ED	20
0858.6 + 3836	medium compact	149	4.6	MD	18
0858.8 + 3732	open	128	3.5	D	25
0900.0 + 3347	medium compact	84	1.2	ED	35
0902.4 + 3324	medium compact	225	4.0	D	33
0903.2 + 3538	medium compact	91	2.0	VD	32
0903.3 + 3731	compact	107	1.1	ED	11
0903.9 + 3716	open	147	9.4	Near	13
0904.5 + 3501	medium compact	118	1.7	ED	16
0905.2 + 3309	compact	122	1.5	ED	31
0905.5 + 3740	medium compact	97	2.6	D	12
0906.5 + 3542	medium compact	208	4.1	VD	15
0907.3 + 3403	medium compact	62	2.2	ED	17
0907.5 + 3214	open	105	2.9	D	5
0909.2 + 3529	medium compact	132	1.6	ED	14
0909.5 + 3738	open	154	4.4	D	9
0910.7 + 3714	medium compact	102	1.8	ED	8
0911.2 + 3846	open	221	6.1	MD	10
0913.1 + 3651	medium compact	151	2.1	ED	7
0915.6 + 3409	medium compact	185	8.4	Near	6

Average number of galaxies per cluster = 150.2

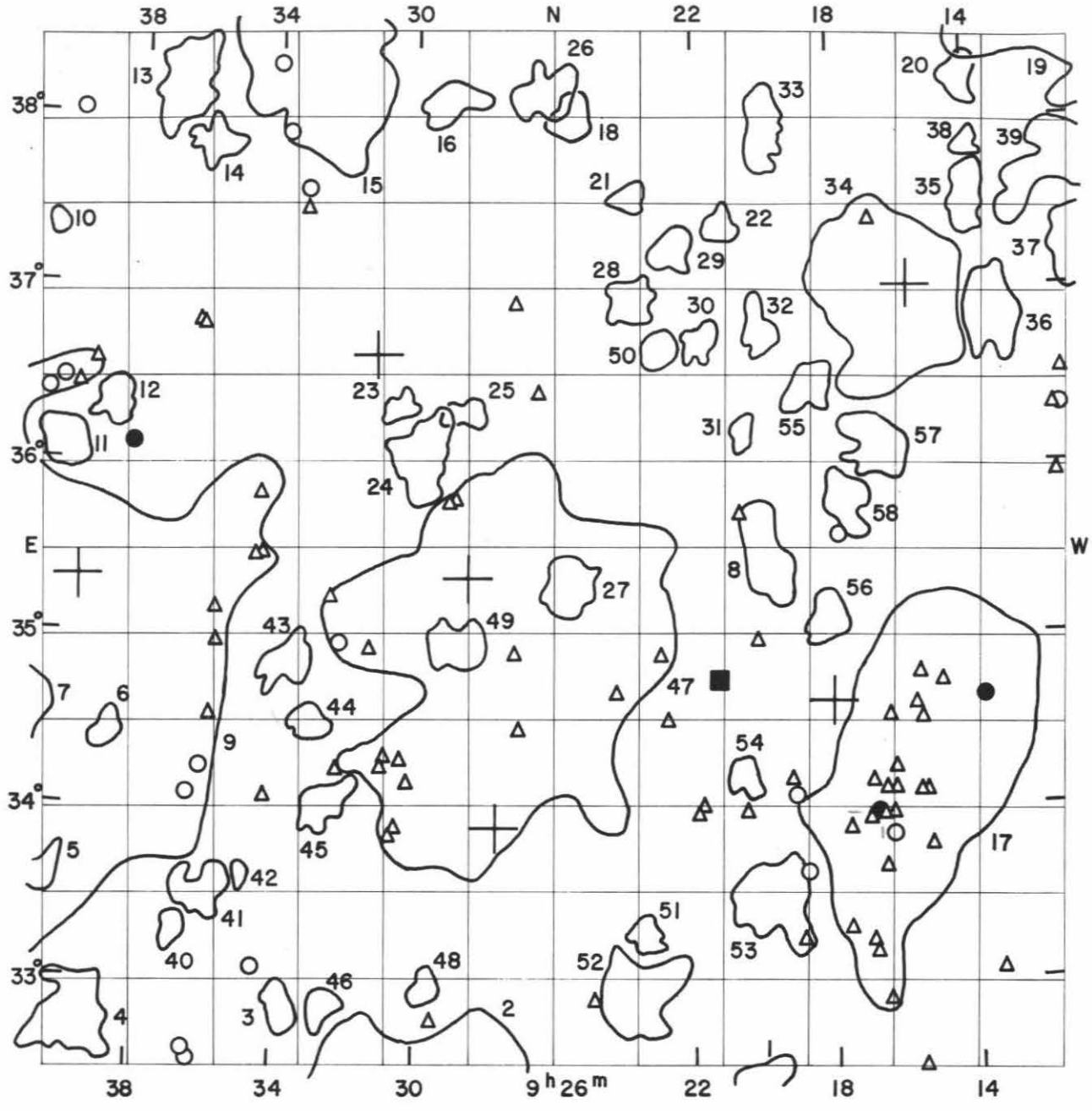
GALAXIES

Position α 1950 δ h m o '	NGC IC*	m_p	V_s km/sec	Remarks
8 43.0 +37 52		15.4		diffuse
8 43.3 +36 37		15.6		
8 44.0 +35 39		15.7		
8 44.1 +37 49		15.7		
8 44.4 +37 47		15.7		compact

Position α 1950 δ		NGC IC*	m_p	V_s km/sec	Remarks
h m	o '				
8 44.7	+38 15	2400*	15.0		
8 44.8	+37 50		15.6		
8 44.9	+37 56	2401*	15.0		compact
8 45.0	+35 25		15.7		
8 45.0	+36 57		15.2		
8 45.5	+37 23	2405*	14.8		
8 46.1	+36 17		14.3		
8 46.2	+36 53	2668	14.9		
8 47.0	+35 15		13.6		
8 47.5	+36 39		15.4		
8 47.8	+36 30		15.5		
8 49.6	+33 36	2683	9.7	+ 336	m_H = 10.8 Sc
8 50.7	+35 20		15.0		eruptive spiral
8 51.2	+32 52	2421*	14.9		diffuse spiral
8 51.3	+32 49		15.3		
8 51.3	+36 38		15.1		
8 51.3	+36 41		15.7		
8 55.3	+37 16		15.7		halo + extremely faint jet
8 55.3	+37 20		15.6		
8 57.1	+35 55	2719	13.7		double system
8 57.2	+34 51		15.5		
8 57.8	+35 57		14.8		
8 57.8	+38 04	2427*	15.7		
8 58.0	+38 08		15.7		compact
9 00.0	+34 17		15.5		
9 02.6	+36 32		14.0		
9 02.8	+35 34	2746	14.4		
9 03.6	+34 49		15.2		
9 03.6	+37 50		15.6		
9 04.1	+37 24	2434*	14.5		
9 04.1	+37 42		15.1		double system
9 04.5	+33 28		14.3		
9 04.7	+33 40		15.3		
9 05.1	+37 44		15.6		
9 05.3	+35 50		15.6		
9 05.4	+35 49		15.4		
9 05.4	+37 49	2759	14.2		
9 05.5	+32 47	2439*	14.7		
9 05.6	+37 42		15.2		
9 06.2	+37 53		15.7		
9 06.4	+32 43		15.4		diffuse spiral
9 06.4	+33 19	2770	12.1		
9 06.4	+38 14		15.5		
9 06.5	+37 47	527*	14.6		
9 06.6	+37 54		15.1		
9 08.5	+33 02		15.4		extremely diffuse spiral
9 09.0	+35 44		15.5		extremely diffuse
9 09.1	+37 52		15.5		
9 09.2	+35 13	2778	13.1		
9 09.3	+35 15	2779	15.5		
9 09.5	+35 59		14.9		double system
9 09.6	+35 07	2780	14.2		
9 09.6	+36 08		15.4		
9 10.6	+33 31		15.7		
9 10.6	+35 02		15.4		
9 11.2	+36 31		15.6		
9 11.3	+36 18		15.0		
9 11.4	+35 55		15.6		
9 11.5	+36 17		15.5		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
2683	9.8	Sc	10.65	Sb	10.4	Sb	10.53	Sb-



FIELD No. 181

9^h26^m $+35^o30'$

Survey Plate No. 925

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
12830	9 15 44.4	+ 37 00 56	3.82
12880	9 18 00.9	+ 34 36 19	3.30
13112	9 27 42.3	+ 33 52 36	5.98
13133	9 28 30.2	+ 35 19 31	5.52
13203	9 31 10.0	+ 36 37 14	4.62
13388	9 39 42.3	+ 35 19 23	6.03

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0909.5 + 3738	open	154	4.4	D	39
0910.7 + 3714	medium compact	102	1.8	ED	37
0911.2 + 3846	open	221	6.1	MD	19
0913.1 + 3651	medium compact	151	2.1	ED	36
0913.8 + 3750	open	64	0.8	VD	38
0913.9 + 3731	medium compact	99	1.6	ED	35
0914.0 + 3814	medium compact	111	1.3	ED	20
0915.6 + 3409	medium compact	185	8.4	Near	17
0916.1 + 3657	medium compact	228	5.5	VD	34
0916.6 + 3605	medium compact	215	1.9	ED	57
0917.5 + 3545	medium compact	105	1.5	VD	58
0918.1 + 3505	medium compact	137	1.4	ED	56
0918.5 + 3140	open	226	5.2	D	1
0918.6 + 3625	open	91	1.5	ED	55
0919.8 + 3326	medium compact	172	2.5	VD	53
0919.8 + 3755	medium compact	151	1.7	ED	33
0919.9 + 3526	medium compact	160	2.1	ED	8
0920.0 + 3646	compact	90	1.3	ED	32
0920.5 + 3410	compact	88	1.1	ED	54
0920.5 + 3610	medium compact	77	0.8	ED	31
0921.0 + 3722	medium compact	97	1.1	ED	22
0921.7 + 3642	medium compact	82	1.1	VD	30
0922.5 + 3715	open	101	1.3	ED	29
0922.9 + 3640	medium compact	99	1.1	ED	50
0923.4 + 3315	compact	71	1.0	ED	51
0923.6 + 3254	open	88	2.5	D	52
0923.8 + 3656	open	120	1.4	ED	28
0923.9 + 3732	medium compact	77	0.9	ED	21
0925.5 + 3517	medium compact	69	1.7	VD	27
0925.5 + 3800	compact	234	1.3	ED	18
0926.1 + 3809	open	57	1.8	VD	26
0927.2 + 3446	open	173	10.9	Near	47
0928.6 + 3617	medium compact	69	1.1	ED	25
0928.7 + 3456	medium compact	122	1.7	VD	49
0929.0 + 3805	medium compact	76	1.3	VD	16
0929.6 + 3257	compact	82	0.9	ED	48
0929.9 + 3601	medium compact	104	2.2	D	24
0930.4 + 3620	medium compact	53	0.9	ED	23
0932.2 + 3147	open	450	9.6	MD	2
0932.5 + 3249	open	72	1.1	ED	46
0932.5 + 3400	open	95	1.4	ED	45
0932.9 + 3430	medium compact	85	1.1	ED	44
0932.9 + 3825	open	207	5.7	D	15
0933.5 + 3451	open	139	1.5	ED	43
0933.6 + 3250	compact	91	1.2	ED	3
0934.8 + 3335	compact	52	0.5	ED	42
0936.0 + 3329	open	69	1.7	VD	41
0936.0 + 3752	compact	99	1.3	VD	14
0936.7 + 3316	medium compact	64	0.9	ED	40
0936.9 + 3812	compact	272	2.2	ED	13
0938.7 + 3620	medium compact	100	1.4	ED	12
0938.8 + 3425	open	69	1.0	ED	6
0939.5 + 3245	open	100	2.5	MD	4
0940.1 + 3606	open	107	1.6	ED	11
0940.5 + 3722	medium compact	47	0.7	ED	10
0940.6 + 3334	medium compact	104	1.3	ED	5
0942.0 + 3425	open	110	3.2	D	7

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0945.0 + 3441	open	475	19.8	MD	9

Average number of galaxies per cluster = 127.7

GALAXIES

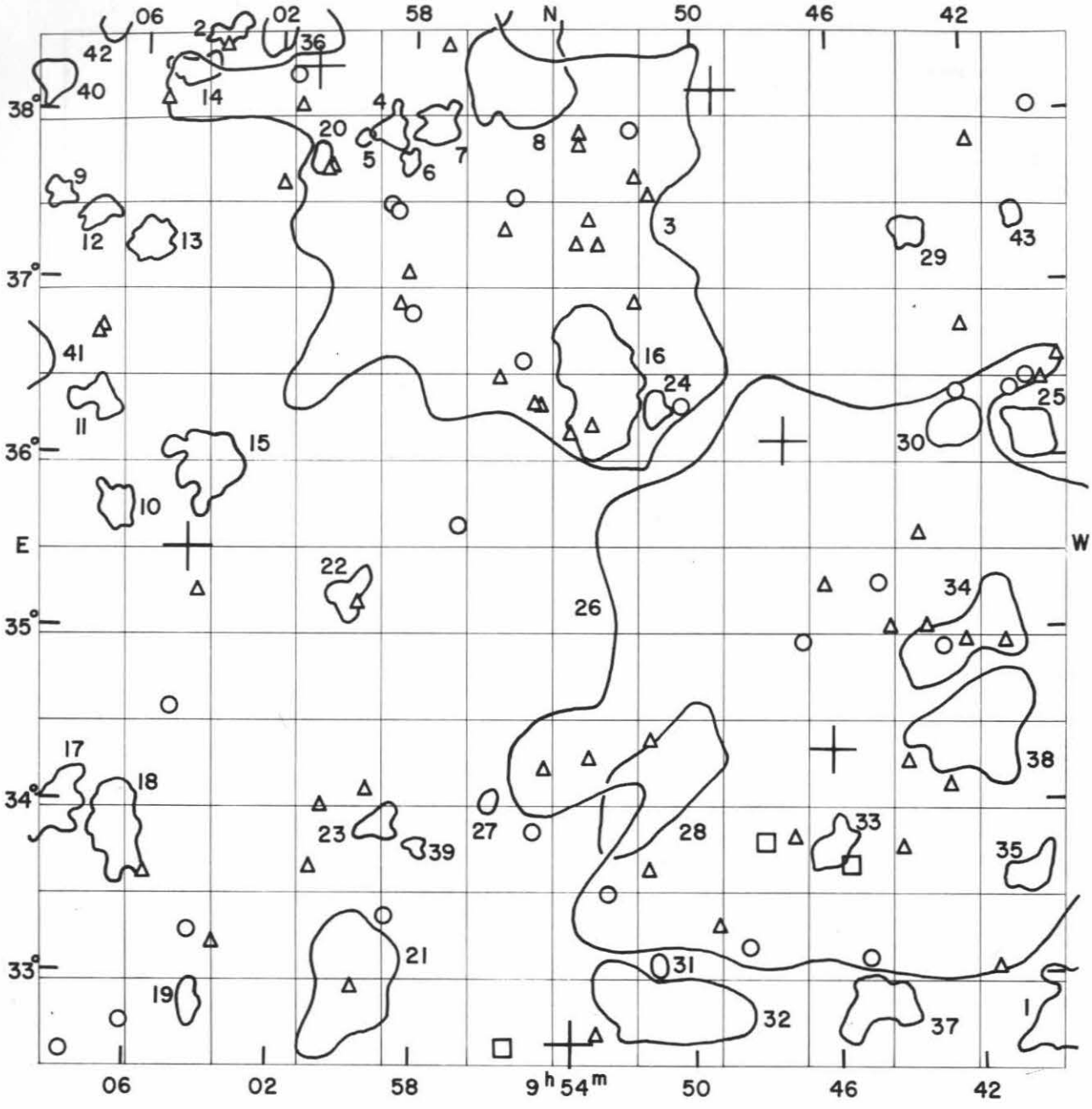
Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
9 11.2	+ 36 31		15.6		
9 11.3	+ 36 18		15.0		
9 11.4	+ 35 55		15.6		
9 11.5	+ 36 17		15.5		
9 13.3	+ 33 02		15.7		
9 13.7	+ 34 39	2793	13.9		eccentric nucleus
9 14.9	+ 34 43		15.7		
9 15.3	+ 33 46		15.6		
9 15.3	+ 34 04		15.6		
9 15.5	+ 32 28		15.6		
9 15.5	+ 34 04		15.6		
9 15.5	+ 34 30		15.5		
9 15.5	+ 34 46		15.4		
9 15.7	+ 34 35		15.7		
9 16.2	+ 34 04	2827	15.6		
9 16.2	+ 34 13	2823	15.7		
9 16.3	+ 33 57	2825	15.3		
9 16.4	+ 33 50	2826	14.6		
9 16.4	+ 34 31		15.6		
9 16.5	+ 32 52		15.7		
9 16.5	+ 34 05	2828	15.7		
9 16.6	+ 33 38		15.6		
9 16.7	+ 33 57	2830	15.4		
9 16.8	+ 33 58	2831+2832	13.3 *)		double system in halo
9 16.8	+ 37 23	2461*	15.1		
9 16.9	+ 33 08		15.3		
9 16.9	+ 34 08	2833	15.6		
9 17.0	+ 33 13		15.7		
9 17.0	+ 33 55	2834	15.6		compact
9 17.6	+ 33 17		15.5		
9 17.6	+ 33 52	2839	15.3		compact
9 17.8	+ 35 35	2840	14.8		
9 18.8	+ 33 37		14.6		very compact
9 18.9	+ 33 13		15.6		compact
9 19.1	+ 34 03		14.5		compact
9 19.2	+ 34 08		15.7		
9 20.2	+ 34 56		15.7		diffuse
9 20.5	+ 33 58		15.4		
9 20.7	+ 35 42		15.5		
9 21.3	+ 34 44	2859	11.8	+1694	
9 21.7	+ 34 00		15.5		compact
9 21.9	+ 33 57		15.6		
9 22.7	+ 34 30		15.7		extremely diffuse spiral
9 23.0	+ 34 52		15.3		
9 24.2	+ 34 39		15.7		
9 24.8	+ 32 52		15.4		
9 26.4	+ 36 25		15.2		
9 27.0	+ 34 27		15.7		
9 27.1	+ 34 53		15.5		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
9 27.1	+ 36 54		15.2		
9 28.8	+ 35 46		15.5		
9 29.0	+ 35 45		15.4		
9 29.5	+ 32 45		15.6		
9 30.2	+ 34 08		15.3		
9 30.4	+ 34 16		15.2		
9 30.5	+ 33 53		15.3		compact
9 30.6	+ 33 50		15.6		
9 30.9	+ 34 17		15.7		
9 31.0	+ 34 13		15.1		
9 31.3	+ 34 55		15.7		
9 32.2	+ 34 13		15.2		
9 32.2	+ 34 57	2491*	15.0		
9 32.4	+ 35 13		15.1		
9 33.2	+ 37 28		15.4		
9 33.2	+ 37 35	2493*	15.0		
9 33.8	+ 37 55	2922	14.6		
9 34.0	+ 38 18		14.5		
9 34.2	+ 34 02		15.7		
9 34.3	+ 35 27		15.7		
9 34.4	+ 35 49		15.2		
9 34.5	+ 33 04	2926	14.4		
9 34.6	+ 35 26		15.5		
9 35.7	+ 34 57	2496*	15.5		
9 35.8	+ 35 09		15.7		
9 35.9	+ 34 32		15.1		
9 36.1	+ 34 14	2942	14.1		
9 36.2	+ 36 47		15.3		I make it 13.3 Z.
9 36.3	+ 32 33	2944	14.7		
9 36.3	+ 36 48		15.4		
9 36.4	+ 32 36		14.3		double system, twisted streamer
9 36.5	+ 34 05		14.8		
9 38.2	+ 36 07	2955	13.9		
9 39.3	+ 36 35	2500*	15.2		
9 39.8	+ 36 26		15.7		compact
9 39.9	+ 38 03		14.9		
9 40.2	+ 36 28	2965	14.7		
9 40.7	+ 36 24	2971	15.0		

*) 2831: $m_p = 14.7$, $V_s = +5155$; 2832: $m_p = 13.6$, $V_s = +6946$.

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
2831	-	-	14.71	E1	14.8	E1	-	-
2832	-	-	13.81	E3	13.5	E2	-	-
2859	11.9	SBa	11.91	SB0	12.0	SB0	-	-



FIELD No. 182

9^h54^m $+35^o30'$

Survey Plate No. 1345

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
13510	9 46 04.5	+ 34 19 09	7.10
13538	9 47 21.7	+ 36 06 28	7.29
13573	9 49 20.2	+ 38 09 00	6.74
13673	9 53 35.7	+ 32 37 20	6.60
13816	10 00 54.5	+ 38 15 53	6.82
13896	10 04 29.2	+ 35 29 21	4.47

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0939.5 + 3245	open	100	2.5	MD	1
0940.1 + 3606	open	107	1.6	ED	25
0940.5 + 3722	medium compact	47	0.7	ED	43
0940.6 + 3334	medium compact	104	1.3	ED	35
0942.0 + 3425	open	110	3.2	D	38
0942.3 + 3457	medium compact	112	3.1	MD	34
0942.4 + 3610	compact	102	1.5	ED	30
0943.6 + 3718	compact	59	0.9	ED	29
0945.0 + 3251	open	76	2.0	ED	37
0945.0 + 3441	open	475	19.8	MD	26
0946.1 + 3345	open	87	1.4	ED	33
0950.6 + 3250	open	87	3.4	D	32
0951.0 + 3303	compact	47	0.5	ED	31
0951.0 + 3407	medium compact	131	3.6	D	28
0951.0 + 3617	compact	97	0.7	ED	24
0952.6 + 3622	medium compact	195	3.5	VD	16
0955.0 + 3815	open	107	3.6	D	8
0955.8 + 3401	compact	59	0.5	ED	27
0956.4 + 3730	open	347	14.4	Near	3
0957.4 + 3757	medium compact	63	1.3	VD	7
0957.8 + 3345	compact	46	0.5	ED	39
0958.2 + 3744	compact	58	0.6	ED	6
0958.8 + 3755	compact	61	1.1	VD	4
0959.0 + 3354	open	92	1.2	ED	23
0959.6 + 3257	open	132	3.4	MD	21
0959.7 + 3752	compact	40	0.4	ED	5
0959.9 + 3512	medium compact	84	1.3	ED	22
1000.9 + 3745	medium compact	79	0.8	ED	20
1002.1 + 3830	medium compact	98	1.3	VD	36
1003.6 + 3829	medium compact	58	1.0	VD	2
1003.9 + 3557	compact	193	2.2	D	15
1004.2 + 3250	compact	87	1.0	ED	19
1004.7 + 3814	medium compact	62	1.2	ED	14
1005.8 + 3715	medium compact	70	1.3	ED	13
1006.3 + 3349	open	108	2.2	ED	18
1006.5 + 3541	open	62	1.2	VD	10
1007.1 + 3834	medium compact	71	1.0	ED	42
1007.2 + 3619	medium compact	66	1.3	VD	11
1007.4 + 3724	medium compact	82	1.1	ED	12
1008.5 + 3354	medium compact	139	2.2	D	17
1008.5 + 3730	medium compact	66	0.9	ED	9
1008.9 + 3811	open	88	1.3	ED	40
1009.7 + 3630	medium compact	90	2.2	D	41

Average number of galaxies per cluster = 103.3

GALAXIES

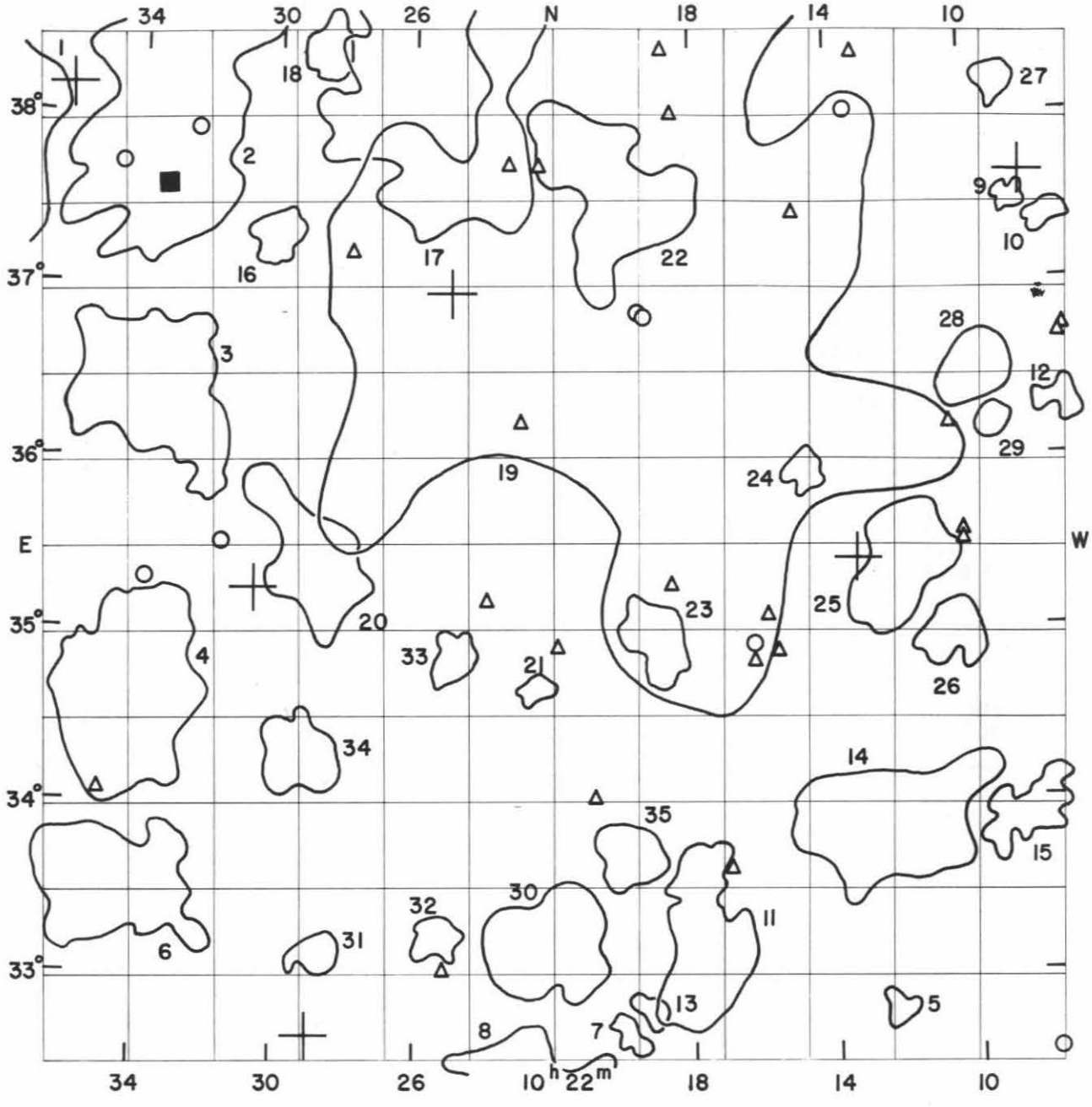
Position α 1950 h m	Position δ 1950 ° ′	NGC IC*	m_p	V_s km/sec	Remarks
9 39.3	+ 36 35	2500*	15.2		
9 39.8	+ 36 26		15.7		compact
9 39.9	+ 38 03		14.9		
9 40.2	+ 36 28	2965	14.7		
9 40.7	+ 36 24	2971	15.0		

Position α 1950 h m	Position δ o	NGC IC*	m_p	V_s km/sec	Remarks
9 41.1	+34 55		15.2		
9 41.6	+33 02		15.2		
9 41.8	+37 50		15.5		
9 42.1	+36 45		15.3		
9 42.2	+34 56		15.4		
9 42.3	+36 23		15.0		
9 42.8	+34 05		15.5		
9 42.8	+34 55		14.7		
9 43.3	+35 01		15.7		
9 43.5	+35 33		15.5		
9 43.9	+34 14		15.4		double system, faint bridge
9 44.1	+33 44	2508*	15.7		
9 44.3	+35 00		15.2		
9 44.7	+35 17		14.9		
9 45.1	+33 06		14.8		very compact
9 45.6	+33 39	3003	12.3	+1476	m_H = 12.5 Sc
9 46.2	+35 16		15.7		
9 46.8	+34 56	3012	14.9		compact
9 47.1	+33 48	3013	15.6		
9 48.0	+33 47	3021	12.6		m_H = 12.7 Sc
9 48.5	+33 10		14.7		
9 49.3	+33 17		15.2		
9 50.3	+36 18		14.9		
9 51.2	+33 37		15.7		
9 51.2	+34 22		15.4		
9 51.2	+37 46		15.6		
9 51.6	+36 54		15.6		
9 51.6	+37 38	2515*	15.1		
9 51.8	+37 55	2516*	15.0		
9 52.4	+33 30		14.5		
9 52.7	+37 15		15.5		
9 52.8	+32 40		15.6		
9 52.9	+36 12		15.7		
9 53.0	+34 16	2519*	15.6		compact
9 53.0	+37 23	2518*	15.6		compact
9 53.2	+37 49		15.4		compact
9 53.2	+37 53		15.7		
9 53.4	+37 15		15.3		
9 53.5	+36 09		15.6		
9 54.2	+34 13	2521*	15.3		
9 54.3	+36 18		15.7		
9 54.5	+33 51	2524*	14.8		compact
9 54.5	+36 19		15.5		
9 54.9	+36 35		15.0		double system in halo
9 55.1	+37 31		14.5		
9 55.4	+32 37	3067	12.7	+1506	m_H = 12.8 S
9 55.4	+37 20	2525*	15.7		very compact
9 55.5	+36 30		15.6		diffuse
9 56.7	+35 38	3074	14.8		
9 57.1	+38 24	2527*	15.2		
9 58.0	+36 51		14.7		
9 58.2	+37 05		15.5		compact
9 58.4	+36 54		15.3		
9 58.5	+37 26	2530*	15.0		
9 58.7	+37 29		14.9		
9 58.8	+33 22		14.9		
9 59.3	+34 05		15.3		
9 59.6	+35 10		15.6		
9 59.7	+32 56	3099	15.4		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
10 00.5	+37 42		15.7		
10 00.6	+34 00		15.4		
10 00.6	+37 41		15.5		
10 00.9	+33 39		15.2		
10 01.4	+38 03		15.6		
10 01.5	+38 14	2535*	14.6		
10 01.9	+37 35		15.1		
10 03.6	+33 11		15.3		
10 03.7	+38 24		15.5		diffuse spiral
10 04.2	+35 14		15.4		
10 04.3	+33 16	3118	14.4		
10 04.9	+34 33	2542*	14.6		
10 05.4	+38 05	2543*	15.7		double system
10 05.5	+33 36	2544*	15.1		
10 06.1	+32 45		15.0		
10 07.1	+36 45	2547*	15.7		
10 07.2	+36 42	2549*	15.6		
10 07.8	+32 33		15.0		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3003	-	-	12.27	Sc	12.0	Sb	12.04	Sc
3067	-	-	12.51	Sbp	12.6	Sb	-	-



FIELD No. 183

10^h22^m $+35^\circ30'$

Survey Plate No. 1032

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
13985	10 08 15.4	+ 37 38 57	6.14
14082	10 13 14.8	+ 35 24 50	7.32
14358	10 24 59.9	+ 36 57 51	4.41
14455	10 29 01.4	+ 32 38 12	5.83
14501	10 30 39.7	+ 35 14 48	5.58
14634	10 36 16.5	+ 38 10 17	5.83

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1007.2 + 3619	medium compact	66	1.3	VD	12
1007.4 + 3724	medium compact	82	1.1	ED	10
1008.5 + 3354	medium compact	139	2.2	D	15
1008.5 + 3730	medium compact	66	0.9	ED	9
1008.9 + 3811	open	88	1.3	ED	27
1009.2 + 3612	medium compact	50	1.0	ED	29
1009.7 + 3630	medium compact	90	2.2	D	28
1010.5 + 3458	medium compact	88	1.9	D	26
1012.0 + 3522	open	105	3.2	MD	25
1012.3 + 3246	compact	132	1.0	ED	5
1012.5 + 3350	compact	303	4.8	MD	14
1014.7 + 3555	compact	85	1.3	ED	24
1017.6 + 3310	medium compact	144	4.0	D	11
1019.0 + 3455	compact	100	2.1	D	23
1019.2 + 3246	compact	64	1.0	ED	13
1019.8 + 3233	compact	93	1.1	ED	7
1019.8 + 3341	medium compact	159	2.0	VD	35
1019.8 + 3653	medium compact	456	18.3	Near	19
1020.2 + 3733	medium compact	287	4.6	MD	22
1022.1 + 3310	compact	195	3.8	ED	30
1022.5 + 3439	compact	71	0.9	VD	21
1022.7 + 3218	open	224	3.9	VD	8
1024.9 + 3450	compact	106	1.5	VD	33
1025.4 + 3312	medium compact	82	1.5	ED	32
1025.5 + 3803	medium compact	431	7.3	MD	17
1028.7 + 3822	medium compact	85	1.8	VD	18
1028.8 + 3306	medium compact	104	1.4	ED	31
1028.9 + 3521	medium compact	210	3.6	D	20
1029.3 + 3416	medium compact	240	2.2	ED	34
1030.1 + 3717	open	57	1.7	VD	16
1033.3 + 3804	open	198	7.0	Near	2
1033.9 + 3624	medium compact	220	5.1	MD	3
1034.4 + 3435	compact	268	5.5	MD	4
1034.5 + 3329	open	260	4.6	D	6
1038.5 + 3802	open	189	5.2	MD	1

Average number of galaxies per cluster = 158.2

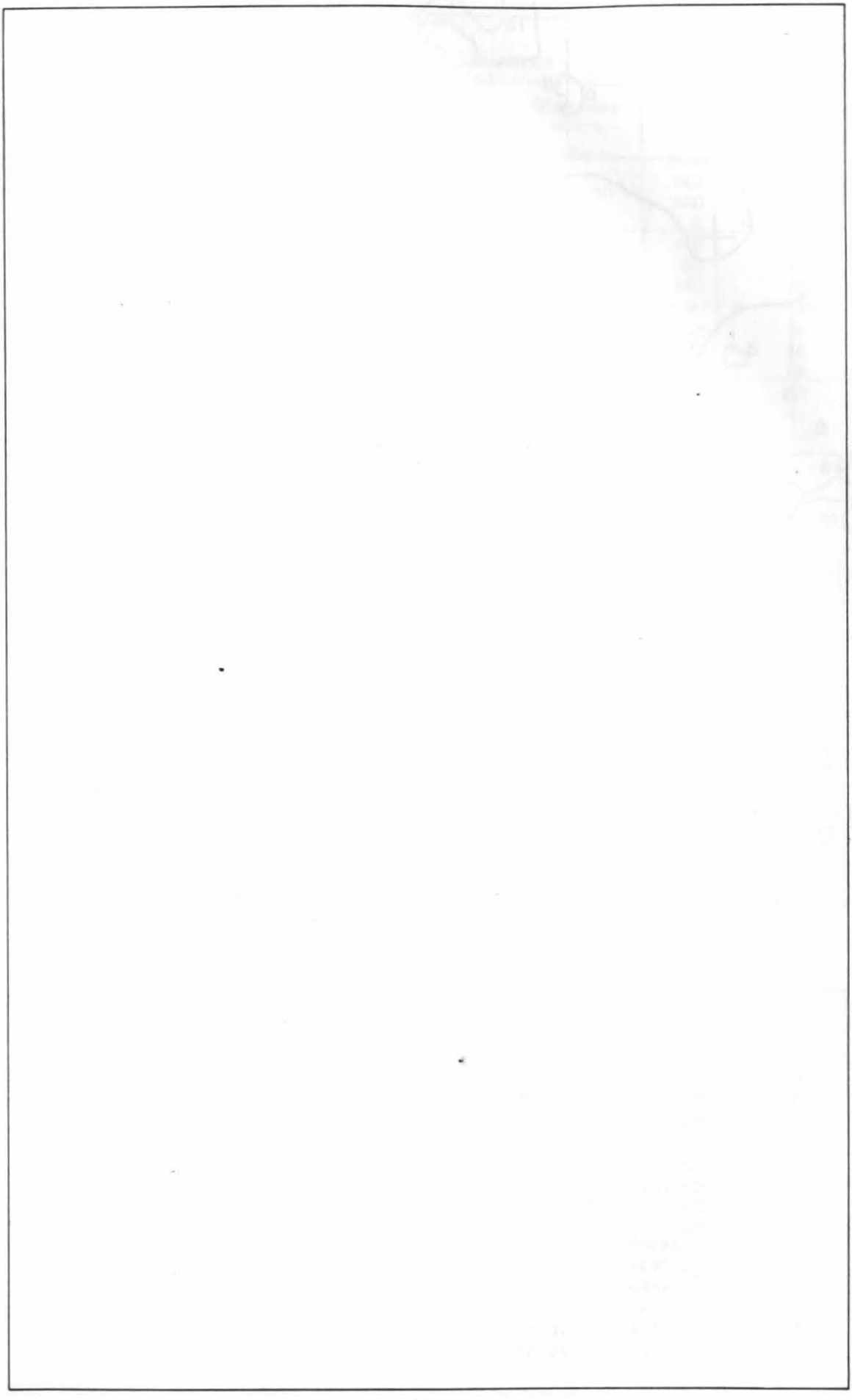
GALAXIES

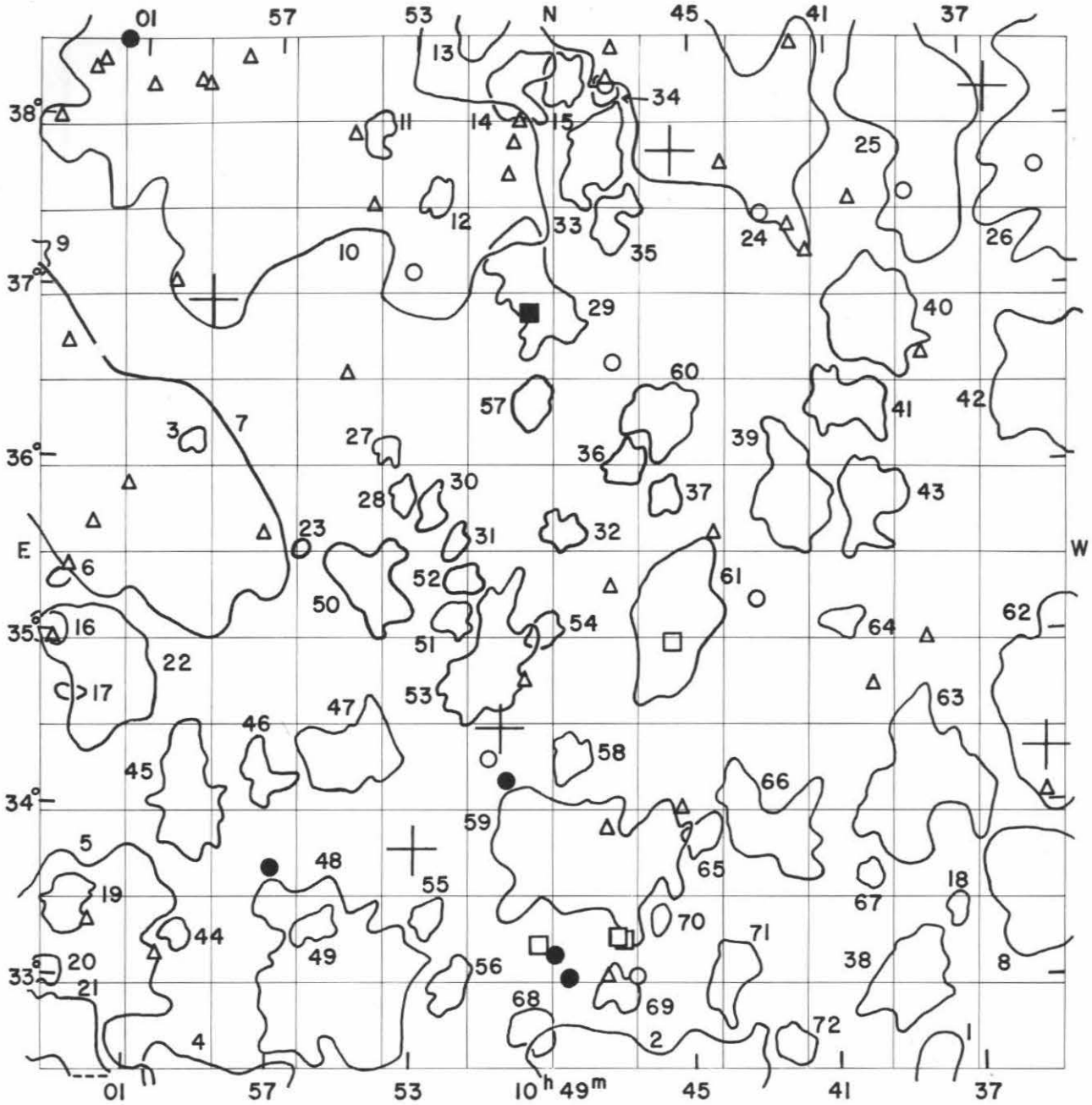
Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
10 07.1	+ 36 45	2547*	15.7		
10 07.2	+ 36 42	2549*	15.6		
10 07.8	+ 32 33		15.0		
10 10.2	+ 35 31		15.5		
10 10.2	+ 35 33		15.7		
10 10.5	+ 36 12		15.5		
10 13.1	+ 38 21	2557*	15.7		
10 13.4	+ 38 01		14.6		
10 15.0	+ 37 25		15.5		compact
10 15.5	+ 34 52		15.6		
10 15.9	+ 35 05		15.2		
10 16.2	+ 34 49		15.6		compact
10 16.2	+ 34 55	2561*	14.9		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
10 17.0	+33 37		15.6		
10 18.5	+38 00		15.4		
10 18.6	+35 17		15.7		
10 18.9	+38 22		15.5		
10 19.4	+36 50	2566*	14.9		
10 19.6	+36 51	2568*	15.0		double system
10 20.8	+34 01		15.4		
10 21.9	+34 54		15.3		
10 22.4	+37 42		15.6		compact
10 23.0	+36 12		15.7		
10 23.3	+37 43		15.1		
10 23.9	+35 11		15.1		
10 25.1	+33 01	2577*	15.3		
10 27.9	+37 13		15.5		very compact
10 31.6	+35 30		14.1		
10 32.5	+37 55		15.0		
10 33.3	+37 35	3294	11.5	+1469	m_H = 11.6 Sc
10 33.8	+35 18	2591*	14.5		
10 34.7	+37 43	3304	14.4		
10 35.0	+34 05		15.7		diffuse

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3294	-	-	-	-	-	Sc	-	-





FIELD No. 184

10^h49^m + 35°30'

Survey Plate No. 731

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
14609	10 35 02.4	+ 34 20 19	6.65
14634	10 36 16.5	+ 38 10 17	5.83
14866	10 45 33.6	+ 37 50 05	6.89
14961	10 50 31.3	+ 34 29 05	3.92
15018	10 52 58.5	+ 33 46 27	5.23
15147	10 58 59.1	+ 36 56 47	7.31

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1033.3 + 3804	open	198	7.0	Near	26
1033.9 + 3624	medium compact	220	5.1	MD	42
1034.4 + 3435	compact	268	5.5	MD	62
1034.5 + 3329	open	260	4.6	D	8
1037.3 + 3134	open	207	6.3	MD	1
1037.7 + 3322	medium compact	82	0.8	ED	18
1038.5 + 3802	open	189	5.2	MD	25
1038.6 + 3406	medium compact	112	4.2	MD	63
1039.0 + 3258	medium compact	99	2.7	D	38
1039.7 + 3650	compact	225	3.2	D	40
1039.9 + 3545	open	94	2.2	D	43
1040.1 + 3335	compact	66	0.8	ED	67
1040.5 + 3620	medium compact	150	2.1	D	41
1040.8 + 3504	medium compact	75	1.0	ED	64
1042.1 + 3547	compact	263	2.9	MD	39
1042.2 + 3236	medium compact	94	1.2	VD	72
1042.4 + 3910	medium compact	344	12.7	Near	24
1042.8 + 3353	open	106	3.0	MD	66
1044.0 + 3300	medium compact	112	1.9	D	71
1044.8 + 3350	open	99	1.2	VD	65
1045.6 + 3504	medium compact	212	3.5	MD	61
1045.8 + 3155	medium compact	481	7.6	MD	2
1045.8 + 3548	compact	137	1.1	ED	37
1045.9 + 3615	open	102	2.2	VD	60
1046.0 + 3320	medium compact	63	0.7	ED	70
1046.9 + 3559	compact	126	1.3	ED	36
1047.1 + 3256	open	116	1.3	D	69
1047.3 + 3725	medium compact	120	1.6	VD	35
1047.6 + 3809	open	70	0.8	ED	34
1047.8 + 3747	open	99	2.3	D	33
1048.0 + 3343	open	252	5.1	MD	59
1048.5 + 3417	medium compact	126	1.3	ED	58
1048.8 + 3535	medium compact	152	1.3	ED	32
1048.8 + 3813	open	76	1.6	VD	15
1049.2 + 3501	compact	104	1.0	ED	54
1049.6 + 3242	medium compact	67	1.4	VD	68
1049.6 + 3700	open	165	3.1	D	29
1049.7 + 3620	medium compact	148	1.4	D	57
1050.2 + 3810	medium compact	86	2.0	D	14
1050.9 + 3451	open	176	3.1	D	53
1051.2 + 3838	compact	159	2.2	D	13
1051.6 + 3519	medium compact	90	1.0	VD	52
1051.8 + 3531	medium compact	94	0.9	ED	31
1051.9 + 3258	medium compact	70	1.5	D	56
1051.9 + 3505	open	110	1.1	ED	51
1052.5 + 3320	medium compact	90	1.1	VD	55
1052.5 + 3544	medium compact	97	1.1	VD	30
1052.5 + 3731	medium compact	92	1.0	ED	12
1053.3 + 3548	open	74	1.0	ED	28
1053.8 + 3605	medium compact	73	0.8	ED	27
1054.1 + 3753	medium compact	101	1.2	ED	11
1054.2 + 3517	open	139	2.3	VD	50
1054.8 + 3419	open	150	2.7	VD	47
1055.0 + 3259	open	277	5.3	MD	48
1055.7 + 3317	medium compact	114	1.2	VD	49
1056.3 + 3529	compact	56	0.5	ED	23
1057.1 + 3411	medium compact	97	1.6	ED	46

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1057.2 + 3804	open	535	13.2	Near	10
1059.3 + 3401	open	114	2.9	D	45
1059.4 + 3606	compact	52	0.7	ED	3
1059.6 + 3315	medium compact	80	0.9	VD	44
1101.9 + 3446	medium compact	258	3.8	VD	22
1102.1 + 3136	medium compact	281	8.8	Near	4
1102.7 + 3325	open	90	1.7	D	19
1102.8 + 3437	compact	63	0.6	ED	17
1103.0 + 3239	open	146	3.3	VD	21
1103.1 + 3300	medium compact	83	0.9	ED	20
1103.1 + 3517	medium compact	72	0.6	ED	6
1103.5 + 3500	medium compact	88	1.2	VD	16
1104.4 + 3708	medium compact	66	0.9	VD	9
1105.5 + 3257	medium compact	885	10.9	MD	5
1107.7 + 3610	open	293	13.9	Near	7

Average number of galaxies per cluster = 154.6

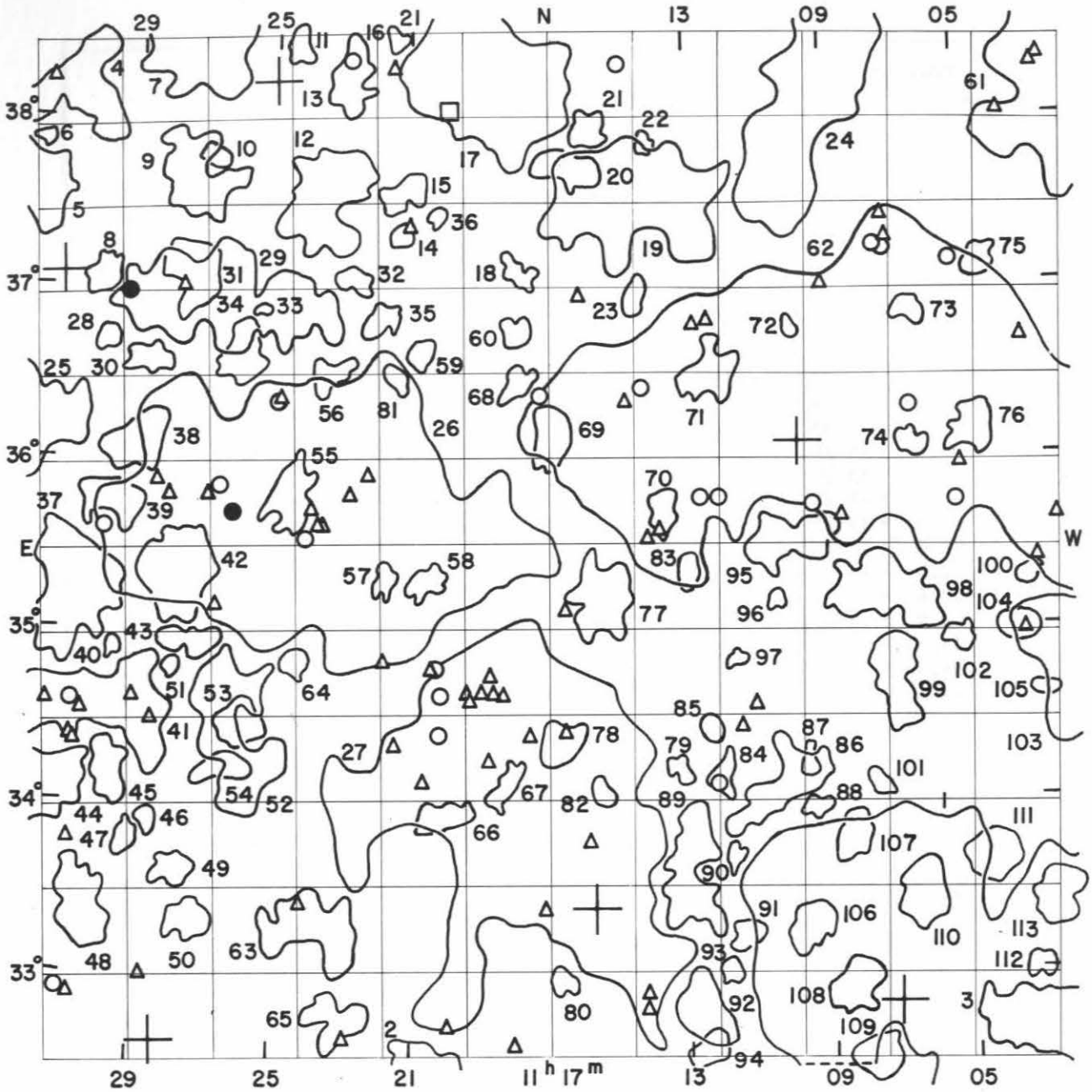
GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
10 34.7	+ 37 43	3304	14.4		
10 35.0	+ 34 05		15.7		diffuse
10 38.3	+ 34 59		15.7		
10 38.3	+ 36 38		15.3		
10 38.6	+ 37 34	3334	14.1		
10 39.8	+ 34 43		15.1		large, disrupted spiral
10 40.3	+ 37 31		15.6		
10 41.6	+ 37 15		15.6		
10 42.0	+ 38 26		15.1		
10 42.1	+ 37 23		15.7		
10 42.9	+ 37 28		15.0		
10 43.1	+ 35 14		14.3		
10 44.1	+ 37 45		15.6		
10 44.4	+ 35 36		15.2		
10 45.3	+ 34 00		15.6		
10 45.6	+ 34 58	3381	12.8		
10 46.6	+ 33 02	2604*	15.0		
10 47.0	+ 33 14	3395	12.1	+1751	m_H = 12.4 Sc
10 47.1	+ 33 15	3396	12.6	+1643	m_H = 12.8 Sc
10 47.2	+ 36 36		14.4		
10 47.3	+ 38 25		15.4		
10 47.4	+ 33 01	2608*	15.6		
10 47.4	+ 35 17		15.6		
10 47.5	+ 33 53		15.5		
10 47.5	+ 38 13	2606*	14.8		
10 47.5	+ 38 15	2607*	15.3		
10 48.5	+ 33 01	3413	13.1		
10 48.9	+ 33 10	3424	13.2		
10 49.4	+ 33 13	3430≡2613*	12.2	+1742	m_H = 12.4 Sc
10 49.7	+ 36 53	3432	11.7	+ 609	m_H = 12.2 Sc
10 49.8	+ 34 45		15.1		
10 50.0	+ 38 00		15.7		
10 50.1	+ 37 52		15.1		
10 50.3	+ 34 10	3442	13.2		
10 50.3	+ 37 41		15.5		

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
10 50.8	+34 17		14.7		
10 53.0	+37 07		14.6		
10 54.3	+37 30		15.7		
10 54.9	+37 55		15.2		
10 55.0	+36 31		15.5		
10 56.9	+33 39		13.3		
10 57.3	+35 35		15.1		
10 58.0	+38 21		15.4		
10 59.2	+38 12	2615*	15.5		
10 59.4	+38 13	2619*	15.7		
11 00.0	+37 02		15.5		
11 00.1	+33 08		15.4		
11 00.8	+38 10		15.6		
11 01.2	+35 51		15.7		
11 01.7	+38 28		13.1		extremely compact
11 02.0	+33 19		15.7		
11 02.2	+35 38		15.3		
11 02.3	+38 20		15.4		
11 02.6	+38 17		15.5		extremely faint jets
11 02.9	+35 23		15.5		
11 03.1	+36 40		15.3		
11 03.3	+34 58		15.7		
11 03.6	+38 00		15.6		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3395	-	-	-	-	-	Sc	-	-
3396	-	-	-	-	-	Sc	-	-
3430	-	-	12.20	Sc	12.0	Sc	-	-
3432	-	-	-	-	-	Sc	11.59	Sc+



FIELD No. 185

11^h17^m $+35^o30'$

Survey Plate No. 695

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
15345	11 07 12.6	+ 32 48 08	7.26
15397	11 09 49.3	+ 36 05 17	6.32
15547	11 15 47.0	+ 33 22 02	3.71
15721	11 25 03.8	+ 38 12 54	7.20
15794	11 28 23.0	+ 32 35 23	7.30
15857	11 31 17.1	+ 37 05 33	6.33

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1057.2 + 3804	open	535	13.2	Near	61
1101.9 + 3446	medium compact	258	3.8	VD	103
1102.7 + 3325	open	90	1.7	D	113
1102.8 + 3437	compact	63	0.6	ED	105
1103.0 + 3239	open	146	3.3	VD	3
1103.1 + 3300	medium compact	83	0.9	ED	112
1103.1 + 3517	medium compact	72	0.6	ED	100
1103.5 + 3500	medium compact	88	1.2	VD	104
1104.4 + 3339	medium compact	90	1.7	VD	111
1104.4 + 3708	medium compact	66	0.9	VD	75
1104.7 + 3610	medium compact	92	1.5	VD	76
1105.2 + 3455	medium compact	121	0.9	ED	102
1105.5 + 3257	medium compact	885	10.9	MD	1
1106.4 + 3326	compact	150	1.8	VD	110
1106.5 + 3605	medium compact	83	0.8	VD	74
1106.5 + 3650	compact	91	0.9	ED	73
1107.1 + 3441	compact	242	2.0	VD	99
1107.3 + 3513	medium compact	345	2.8	VD	98
1107.6 + 3405	compact	87	0.7	ED	101
1107.7 + 3610	open	293	13.9	Near	62
1107.8 + 3230	medium compact	88	1.6	VD	109
1108.4 + 3255	medium compact	85	1.7	D	108
1108.4 + 3347	medium compact	77	1.3	VD	107
1109.1 + 3806	compact	206	4.7	Near	24
1109.4 + 3358	compact	93	0.8	VD	88
1109.6 + 3315	medium compact	98	1.5	VD	106
1109.6 + 3414	medium compact	74	0.8	ED	87
1110.0 + 3530	open	138	1.9	VD	95
1110.0 + 3646	compact	62	0.5	ED	72
1110.3 + 3404	open	108	2.4	D	86
1110.5 + 3510	compact	48	0.5	ED	96
1111.4 + 3313	compact	103	0.9	VD	91
1111.6 + 3450	compact	62	0.5	ED	97
1111.8 + 3340	medium compact	73	0.6	ED	90
1111.9 + 3300	compact	73	0.8	VD	93
1112.1 + 3409	medium compact	86	1.1	VD	84
1112.2 + 3630	medium compact	123	1.8	D	71
1112.4 + 3425	medium compact	71	0.7	ED	85
1112.5 + 3233	open	55	1.1	VD	94
1112.7 + 3245	open	90	1.9	D	92
1113.0 + 3335	open	106	2.6	D	89
1113.0 + 3520	compact	97	0.9	ED	83
1113.2 + 3411	compact	62	0.7	ED	79
1113.7 + 3542	compact	97	1.1	VD	70
1114.2 + 3750	medium compact	52	0.5	ED	22
1114.4 + 3733	medium compact	126	4.5	MD	19
1114.5 + 3656	medium compact	78	0.9	ED	23
1115.5 + 3402	medium compact	76	0.8	ED	82
1115.5 + 3511	open	109	2.2	MD	77
1115.9 + 3756	medium compact	53	1.1	VD	21
1116.5 + 3743	medium compact	90	1.6	D	20
1116.6 + 3257	medium compact	65	0.8	VD	80
1116.6 + 3420	open	98	1.4	VD	78
1116.9 + 3607	medium compact	78	1.7	VD	69
1117.6 + 3352	open	290	10.0	Near	27
1117.9 + 3627	medium compact	56	1.0	ED	68
1117.9 + 3704	medium compact	73	0.8	ED	18

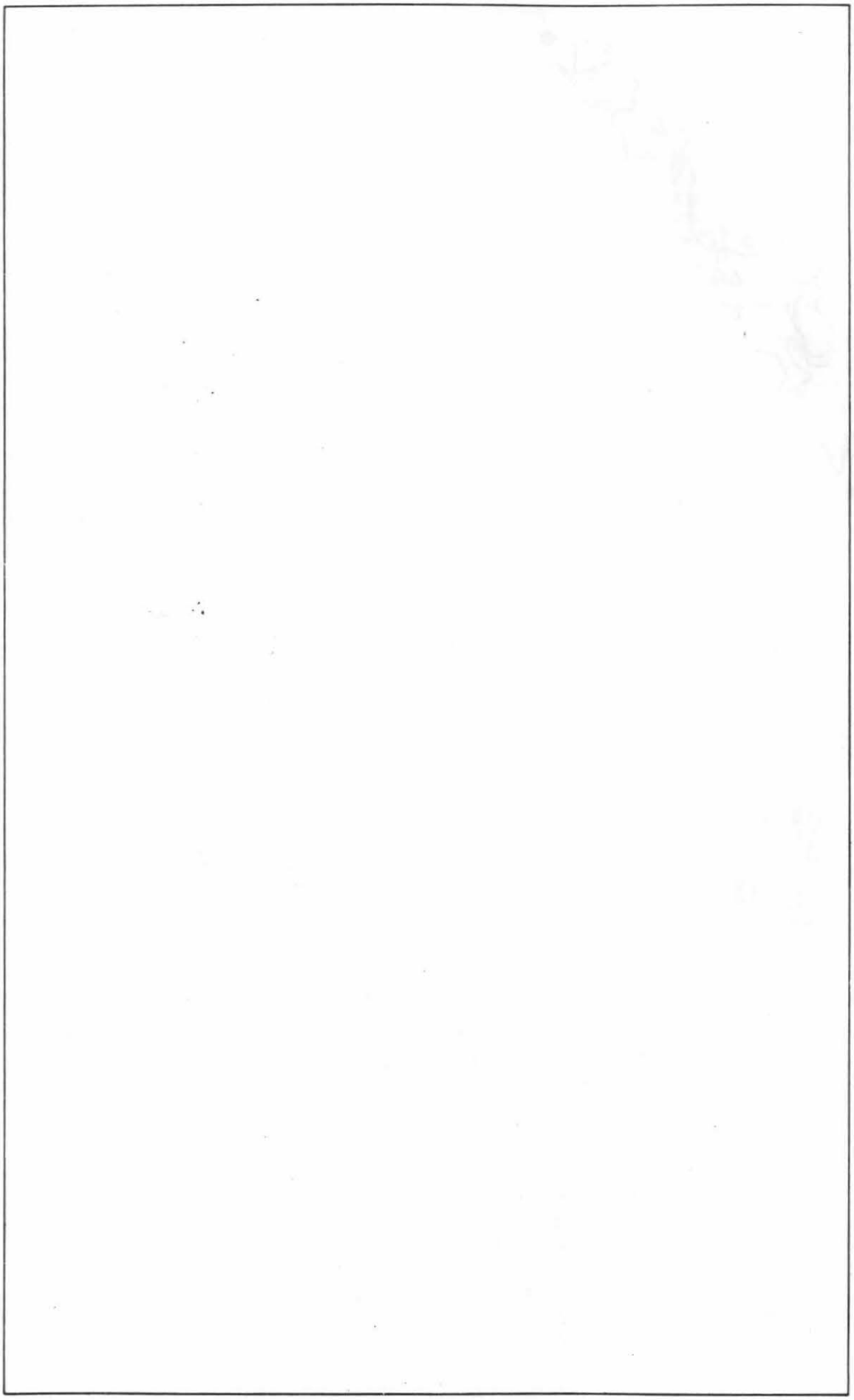
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1118.0 + 3644	compact	78	0.9	VD	60
1118.2 + 3405	medium compact	93	1.1	VD	67
1118.8 + 3812	medium compact	161	4.9	MD	17
1120.0 + 3355	medium compact	84	1.3	ED	66
1120.1 + 3222	medium compact	233	2.2	D	2
1120.3 + 3725	compact	62	0.5	ED	36
1120.5 + 3517	medium compact	88	1.1	ED	58
1120.7 + 3636	compact	98	0.8	VD	59
1121.3 + 3717	medium compact	62	0.7	ED	14
1121.3 + 3733	medium compact	120	1.2	VD	15
1121.4 + 3627	medium compact	56	0.8	VD	81
1121.6 + 3827	medium compact	68	0.6	ED	16
1121.8 + 3517	medium compact	77	0.9	ED	57
1121.9 + 3648	open	63	1.0	VD	35
1122.7 + 3702	medium compact	76	0.9	ED	32
1122.9 + 3811	open	93	1.7	VD	13
1123.1 + 3243	medium compact	97	1.7	D	65
1123.4 + 3630	compact	60	1.2	ED	56
1123.6 + 3732	medium compact	166	3.0	D	12
1123.7 + 3315	open	126	2.7	D	63
1123.9 + 3541	open	260	11.0	Near	26
1124.3 + 3447	open	56	0.9	ED	64
1124.4 + 3546	open	98	1.7	D	55
1124.6 + 3826	medium compact	103	0.9	ED	11
1125.3 + 3652	compact	61	0.4	ED	33
1125.9 + 3427	compact	111	1.4	VD	53
1126.0 + 3425	open	126	3.3	MD	52
1126.0 + 3635	medium compact	77	1.5	VD	34
1126.4 + 3412	medium compact	73	1.2	VD	54
1126.4 + 3656	medium compact	140	4.5	Near	29
1126.9 + 3745	compact	99	0.8	ED	10
1127.1 + 3850	medium compact	659	6.1	D	7
1127.2 + 3318	compact	90	1.3	VD	50
1127.3 + 3456	medium compact	80	1.3	VD	43
1127.4 + 3705	medium compact	144	2.1	VD	31
1127.4 + 3740	medium compact	136	2.6	D	9
1127.7 + 3335	compact	87	1.2	VD	49
1127.7 + 3520	compact	170	2.5	D	42
1127.9 + 3446	medium compact	58	0.5	ED	51
1128.5 + 3353	compact	90	0.7	VD	46
1128.7 + 3635	medium compact	130	1.0	ED	30
1129.0 + 3605	compact	133	1.9	D	38
1129.1 + 3346	medium compact	74	0.9	ED	47
1129.6 + 3410	compact	75	1.4	VD	45
1129.6 + 3453	compact	58	0.5	ED	40
1129.7 + 3545	compact	113	1.7	VD	39
1129.9 + 3643	compact	82	0.7	ED	28
1130.1 + 3703	medium compact	150	1.1	ED	8
1130.2 + 3323	open	97	2.0	VD	48
1130.6 + 3514	open	122	3.3	MD	37
1130.9 + 3435	open	166	4.2	Near	41
1130.9 + 3810	medium compact	142	2.7	D	4
1131.8 + 3404	open	150	2.8	D	44
1132.0 + 3753	compact	53	0.6	ED	6
1132.3 + 3739	compact	200	2.3	D	5
1132.4 + 3615	medium compact	240	3.8	D	25

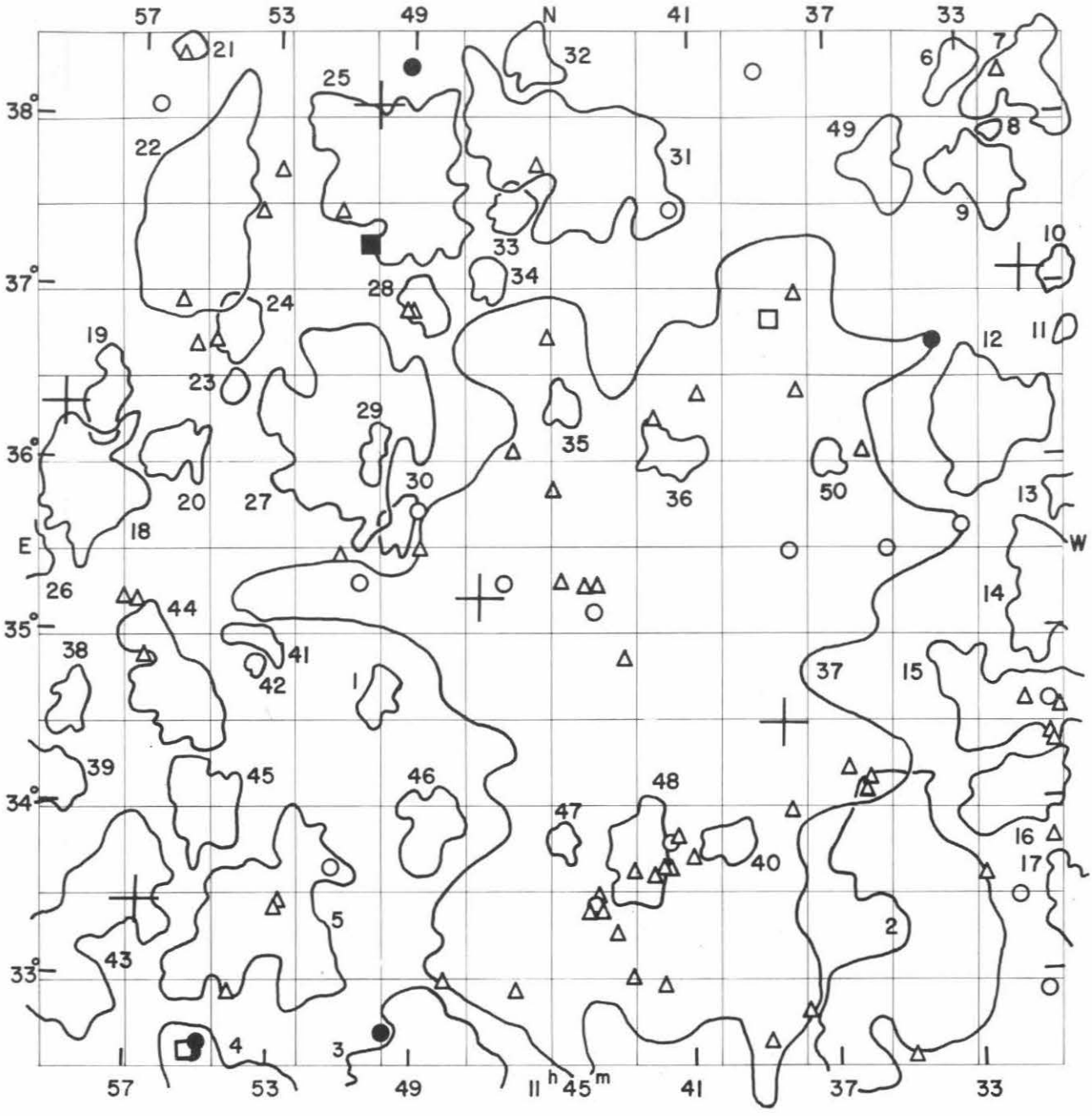
Average number of galaxies per cluster = 123.6

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
11 02.2	+35 38		15.3		
11 02.3	+38 20		15.4		
11 02.6	+38 17		15.5		extremely faint jets
11 02.9	+35 23		15.5		
11 03.1	+36 40		15.3		
11 03.3	+34 58		15.7		
11 03.6	+38 00		15.6		
11 05.1	+35 58		15.7		
11 05.2	+35 44		14.9		
11 05.2	+37 08		14.6		
11 06.5	+36 17	3540	14.6		
11 07.1	+37 16		15.5		
11 07.2	+37 13	3542	15.0		
11 07.2	+37 24		15.5		
11 07.4	+37 14	3545	14.8		double system in halo
11 08.5	+35 40		15.2		
11 09.0	+37 00		15.5		
11 09.3	+35 43	3569	14.5		
11 11.1	+34 33		15.6		
11 11.5	+34 26		15.4		
11 12.1	+35 46		14.4		double system
11 12.2	+34 06		14.7		
11 12.3	+36 49		15.7		
11 12.6	+35 46		14.8		
11 12.8	+36 47		15.4		compact
11 13.8	+35 35		15.4		
11 14.2	+32 46		15.7		
11 14.2	+32 52		15.5		compact
11 14.2	+35 31		15.3		double system, faint halo
11 14.3	+36 25		15.0		
11 14.8	+36 20		15.1		
11 14.9	+38 19		14.8		
11 15.9	+33 45		15.6		
11 16.2	+36 56		15.5		
11 16.5	+34 24		15.5		compact
11 16.6	+35 06		15.7		
11 17.1	+33 21		15.2		very compact
11 17.2	+36 22		15.0		
11 17.6	+34 22		15.3		
11 18.0	+32 34		15.3		
11 18.3	+34 37	2735*	15.4		
11 18.6	+34 38	2738*	15.3		compact
11 18.7	+34 44		15.7		
11 18.8	+34 14		15.1		very compact, halo
11 19.0	+34 38	2744*	15.5		compact
11 19.3	+34 36		15.4		
11 19.4	+34 39	2751*	15.7		compact
11 19.9	+32 40		15.4		
11 19.9	+38 02	3652	12.6		
11 20.1	+34 37		14.9		
11 20.2	+34 23		14.6		
11 20.3	+34 47		15.0		
11 20.4	+34 46		15.6		
11 20.6	+34 06		15.5		very compact
11 21.0	+37 21		15.6		
11 21.4	+34 19		15.7		

Position α 1950 δ		NGC IC*	m_p	V_s km/sec	Remarks
h m	o '				
11 21.5	+38 16		15.5		compact
11 21.8	+34 48		15.5		double system, contact
11 22.3	+35 54		15.3		
11 22.8	+35 47		15.4		compact
11 22.8	+38 19		14.7		
11 22.9	+32 36		15.7		
11 23.6	+35 37		15.4		double system
11 23.7	+35 36		15.6		
11 23.9	+35 42		15.3		
11 24.1	+35 31		14.9		
11 24.2	+33 23		15.6		
11 24.8	+36 19		15.0		
11 24.8	+36 20		15.7		
11 26.2	+35 41	3694	13.5		
11 26.6	+35 51	3695	14.9		
11 26.7	+35 08		15.6		extremely diffuse spiral
11 26.9	+35 47	3700	15.1		
11 27.7	+37 00		15.2		
11 28.0	+35 47		15.6		
11 28.4	+35 52		15.6		
11 28.5	+34 29		15.6		diffuse spiral
11 28.6	+32 58		15.4		compact
11 29.0	+34 36		15.3		
11 29.3	+36 58		14.0		
11 29.9	+35 36		14.1		
11 30.6	+34 32	2925*	15.6		
11 30.7	+32 52		15.4		
11 30.7	+34 20		15.7		
11 30.8	+33 46		15.4		
11 30.8	+34 22		15.7		
11 30.8	+34 35	2928*	14.7		
11 31.0	+32 54		14.5		
11 31.5	+34 35	2933*	15.2		
11 31.7	+38 14		15.7		





FIELD No. 186

11^h45^m $+35^o30'$

Survey Plate No. 109

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
15857	11 31 17.1	+ 37 05 33	6.33
16035	11 38 25.3	+ 34 29 03	5.46
16199	11 47 06.1	+ 35 12 34	5.76
16253	11 50 06.2	+ 38 04 39	6.46
16392	11 56 43.4	+ 33 26 44	6.02
16439	11 59 06.2	+ 36 19 17	5.62

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1129.7 + 3545	compact	113	1.7	VD	13
1129.9 + 3643	compact	82	0.7	ED	11
1130.1 + 3703	medium compact	150	1.1	ED	10
1130.2 + 3323	open	97	2.0	VD	17
1130.6 + 3514	open	122	3.3	MD	14
1130.9 + 3435	open	166	4.2	Near	15
1130.9 + 3810	medium compact	142	2.7	D	7
1131.8 + 3404	open	150	2.8	D	16
1132.0 + 3753	compact	53	0.6	ED	8
1132.3 + 3739	compact	200	2.3	D	9
1132.4 + 3615	medium compact	240	3.8	D	12
1133.1 + 3816	open	121	1.5	ED	6
1134.8 + 3310	medium compact	576	6.6	MD	2
1135.3 + 3742	medium compact	131	2.1	D	49
1137.0 + 3601	medium compact	71	1.1	VD	50
1140.0 + 3348	medium compact	55	1.5	VD	40
1141.6 + 3602	medium compact	98	1.8	ED	36
1142.2 + 3456	medium compact	470	19.4	Near	37
1142.5 + 3343	medium compact	154	2.6	D	48
1144.1 + 3745	open	229	5.4	MD	31
1144.7 + 3348	compact	87	1.0	VD	47
1144.7 + 3620	medium compact	130	1.2	ED	35
1145.7 + 3821	medium compact	81	1.8	VD	32
1146.1 + 3728	compact	89	1.4	VD	33
1146.9 + 3704	medium compact	92	1.2	ED	34
1148.2 + 3225	open	253	4.9	MD	3
1148.5 + 3352	compact	112	2.2	VD	46
1148.7 + 3655	medium compact	98	1.6	VD	28
1149.4 + 3538	medium compact	117	1.4	ED	30
1149.6 + 3742	compact	578	5.1	D	25
1150.0 + 3438	open	104	1.4	ED	1
1150.1 + 3603	compact	102	1.1	ED	29
1150.9 + 3609	open	208	5.4	MD	27
1153.0 + 3321	medium compact	235	5.1	MD	5
1153.4 + 3459	medium compact	70	1.3	VD	41
1153.5 + 3449	compact	67	0.6	ED	42
1154.2 + 3625	medium compact	92	0.9	VD	23
1154.2 + 3646	medium compact	133	1.8	D	24
1154.9 + 3400	medium compact	128	2.7	MD	45
1155.0 + 3127	medium compact	209	8.6	Near	4
1155.3 + 3721	open	170	5.1	MD	22
1155.8 + 3441	medium compact	202	3.4	D	44
1155.8 + 3823	medium compact	76	0.8	ED	21
1156.0 + 3603	medium compact	127	1.8	D	20
1157.9 + 3620	open	102	1.8	D	19
1158.3 + 3551	medium compact	198	3.6	MD	18
1158.7 + 3435	compact	120	1.5	VD	38
1158.8 + 3315	open	222	5.4	MD	43
1200.1 + 3410	medium compact	162	2.9	VD	39
1201.3 + 3530	medium compact	240	3.5	VD	26

Average number of galaxies per cluster = 160.5

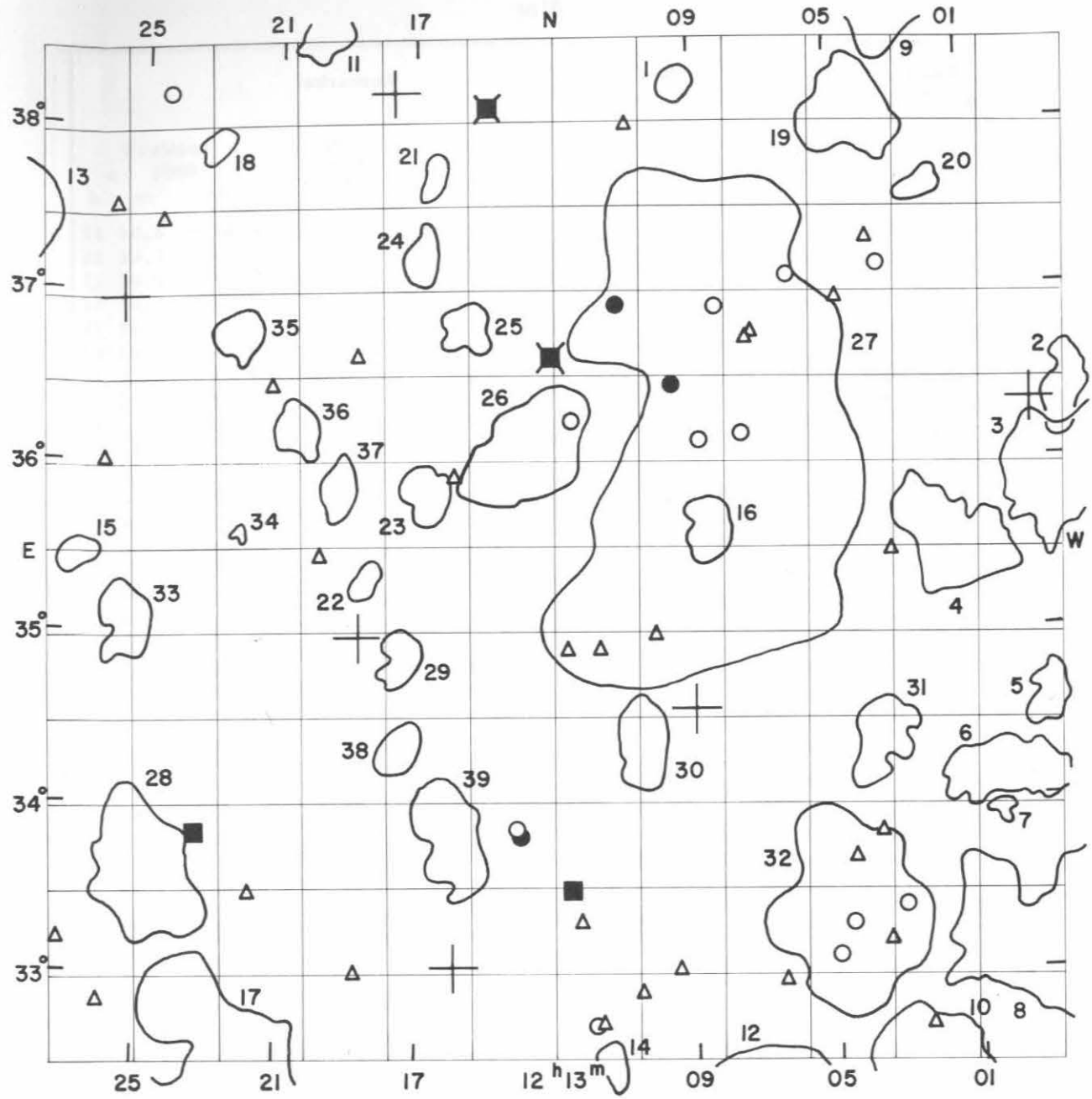
GALAXIES

Position α 1950 h m	Position δ ° ′	NGC IC*	m_p	V_s km/sec	Remarks
11 30.6	+34 32	2925*	15.6		
11 30.7	+34 20		15.7		
11 30.8	+33 46		15.4		
11 30.8	+34 22		15.7		
11 30.8	+34 35	2928*	14.7		
11 31.0	+32 54		14.5		
11 31.5	+34 35	2933*	15.2		
11 31.7	+38 14		15.7		
11 31.8	+33 27		15.0		compact
11 32.8	+33 34		15.6		
11 33.2	+35 36		14.5		
11 33.9	+36 40	3755	13.9		
11 34.9	+32 31	2946*	15.2		
11 35.4	+35 28		15.0		
11 35.9	+34 08		15.1		
11 36.0	+36 02		15.4		
11 36.1	+34 04		15.3		
11 36.6	+34 12		15.4		
11 37.8	+32 47		15.7		
11 37.9	+36 24		15.4		
11 37.9	+36 57		15.5		
11 38.2	+33 57		15.2		
11 38.2	+35 28		14.9		
11 38.7	+36 49	3813	12.6		m_H = 12.6 Sc
11 38.9	+32 37		15.6		
11 39.0	+38 15	2950*	14.8		
11 40.8	+36 23		15.5		eccentric nucleus + jet
11 41.0	+33 41		15.7		
11 41.4	+33 48		15.7		double system
11 41.5	+37 27		14.9		extremely faint jets
11 41.6	+33 37	2952*	15.6		
11 41.6	+33 47	3847	14.6		
11 41.7	+33 37	2953*	15.1		
11 41.8	+32 56		15.3		
11 42.0	+36 14		15.1		
11 42.1	+33 35	3855=3856	15.6		
11 42.6	+33 36	729*	15.5		
11 42.7	+32 59		15.4		
11 42.9	+34 50		15.7		
11 43.2	+33 15		15.6		
11 43.5	+33 23	3871	15.4		
11 43.6	+33 28	3878	15.5		very compact
11 43.7	+33 26	3880	14.8		compact
11 43.7	+35 16	2960*	15.6		
11 43.8	+35 07		15.0		
11 43.9	+33 23	3881	15.2		compact
11 44.1	+35 16		15.5		
11 44.7	+35 18		15.7		very compact
11 45.0	+35 50		15.6		compact
11 45.1	+36 43		15.7		
11 45.4	+37 43		15.4		triple system, connected
11 46.0	+32 55		15.5		compact
11 46.1	+36 03		15.7		system with jet
11 46.4	+35 18	3897	14.2		
11 48.1	+32 58		15.6		very compact
11 48.8	+35 29		15.3		

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
11 48.8	+35 43		14.3		
11 49.0	+36 52		15.7		
11 49.1	+38 16	3930	13.5		
11 49.2	+36 52		15.6		
11 49.8	+32 41	3935	14.0		
11 50.3	+37 15	3941	11.3	+ 950	m_H = 11.4 Sa
11 50.5	+35 18		14.7		
11 51.1	+35 26		15.5		
11 51.2	+37 26		15.6		
11 51.2	+33 38	2973*	14.5		
11 52.7	+33 25		15.6		
11 52.8	+33 24		15.3		
11 52.9	+37 40		15.4		
11 53.4	+37 26		15.7		
11 54.1	+32 53		15.5		
11 54.7	+36 41		15.3		
11 54.9	+32 36	3991	13.8		double system, bridge
11 55.0	+32 33	3994	13.7		
11 55.2	+32 34	3995	12.9	+3347	m_H = 12.9 S
11 55.3	+36 40		15.1		double system, bridge
11 55.7	+36 54		15.6		very compact
11 55.8	+38 20		15.2		extremely diffuse
11 56.6	+34 51		15.5		
11 56.6	+38 03	4025	14.9		
11 56.9	+35 10		15.5		
11 57.3	+35 11		15.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3941	-	-	-	-	11.3	SB0	-	-
3995	-	-	-	-	-	Sc	-	-



FIELD No. 187

12^h13^m $+35°30'$

Survey Plate No. 1599

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
16439	11 59 06.2	+ 36 19 17	5.62
16650	12 09 00.2	+ 34 32 16	7.12
16788	12 15 58.6	+ 33 01 36	6.68
16825	12 17 44.3	+ 38 10 47	6.67
16851	12 18 41.4	+ 34 57 52	7.17
17000	12 25 41.2	+ 36 57 38	9.2

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1157.9 + 3620	open	102	1.8	D	2
1158.3 + 3551	medium compact	198	3.6	MD	3
1158.7 + 3435	compact	120	1.5	VD	5
1158.8 + 3315	open	222	5.4	MD	8
1200.1 + 3355	compact	58	0.6	ED	7
1200.1 + 3410	medium compact	162	2.9	VD	6
1201.3 + 3530	medium compact	240	3.5	VD	4
1201.5 + 3916	medium compact	210	8.9	Near	9
1202.1 + 3735	medium compact	58	1.1	ED	20
1202.7 + 3225	medium compact	161	3.8	D	10
1203.6 + 3420	medium compact	77	2.2	VD	31
1204.3 + 3802	medium compact	131	3.1	D	19
1204.7 + 3319	open	123	5.5	Near	32
1208.1 + 3603	open	180	12.2	Near	27
1208.5 + 3536	medium compact	113	1.7	MD	16
1209.4 + 3813	medium compact	58	1.0	ED	1
1210.5 + 3420	compact	139	2.2	VD	30
1211.4 + 3228	medium compact	65	1.2	ED	14
1213.7 + 3604	open	111	3.6	D	26
1215.6 + 3646	compact	76	1.6	ED	25
1216.0 + 3347	open	103	2.9	D	39
1216.5 + 3740	compact	70	1.1	ED	21
1216.6 + 3548	medium compact	100	1.7	VD	23
1216.9 + 3711	medium compact	75	1.3	ED	24
1217.5 + 2915	medium compact	1828	30.9	Near	12
1217.5 + 3419	medium compact	58	1.5	VD	38
1217.5 + 3450	compact	98	1.5	ED	29
1218.5 + 3518	compact	71	1.0	ED	22
1219.3 + 3550	medium compact	98	1.5	ED	37
1219.7 + 3833	medium compact	67	1.6	VD	11
1220.5 + 3610	compact	71	1.6	ED	36
1222.1 + 3534	compact	37	0.3	ED	34
1222.2 + 3644	medium compact	62	1.6	ED	35
1223.0 + 3752	medium compact	55	1.0	VD	18
1224.6 + 3131	medium compact	521	11.9	Near	17
1224.6 + 3334	medium compact	112	3.8	D	28
1225.3 + 3503	medium compact	93	2.0	VD	33
1226.8 + 3525	compact	67	1.1	ED	15
1231.9 + 3732	medium compact	180	7.4	D	13

Average number of galaxies per cluster = 163.3

GALAXIES

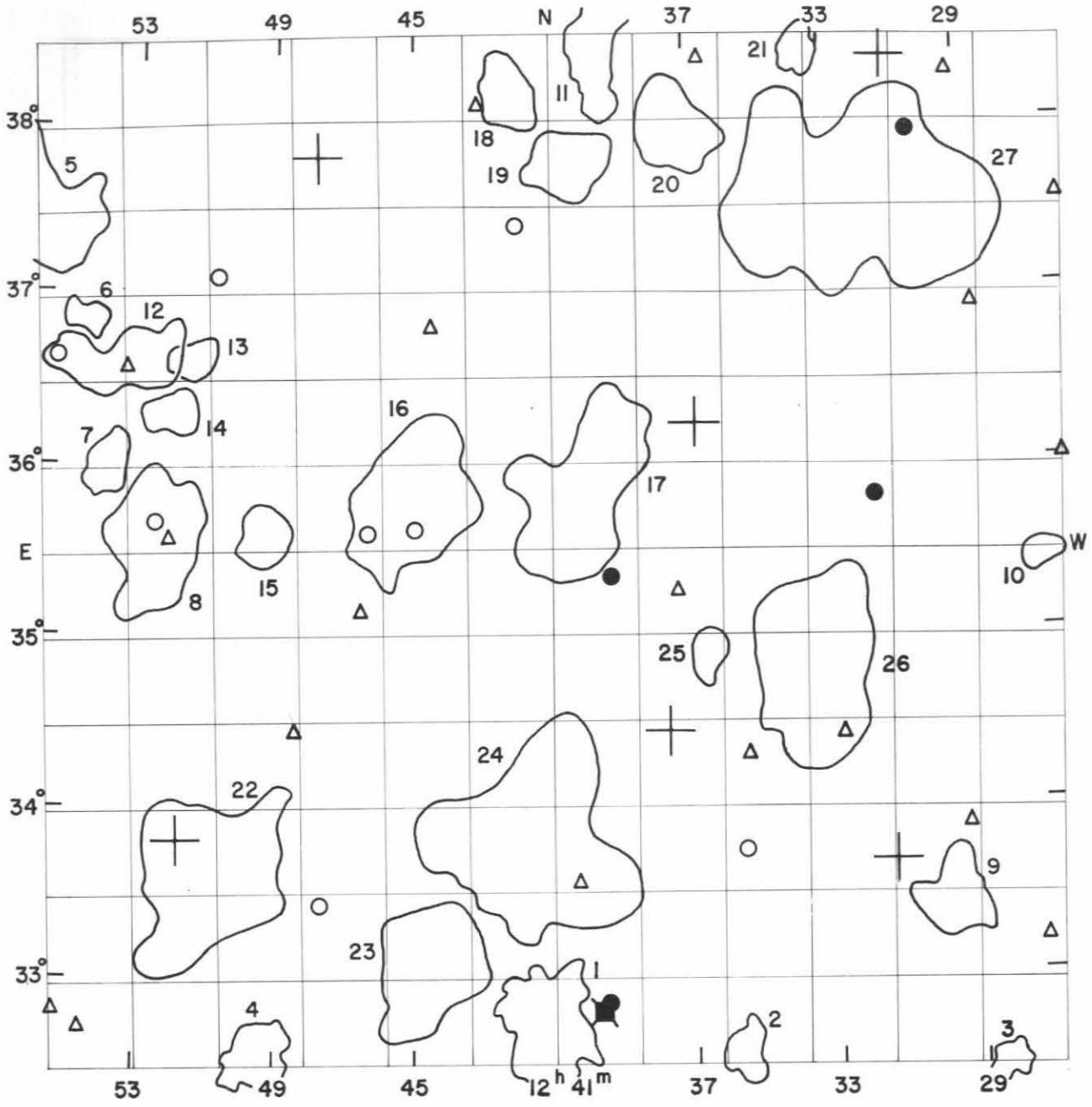
Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
12 02.4	+ 32 40		15.7		
12 03.1	+ 33 23		14.9		
12 03.3	+ 35 27		15.7		compact
12 03.5	+ 37 08	4097	14.6		
12 03.6	+ 33 10	2993*	15.5		double system
12 03.7	+ 33 48	3001*	15.7		
12 03.8	+ 37 17		15.6		
12 04.5	+ 33 39		15.6		very diffuse
12 04.6	+ 33 16	4122	14.8		

Position α 1950 h m	δ ° ′	NGC IC*	m_p	V_s km/sec	Remarks
12 04.7	+ 36 56		15.1		
12 05.0	+ 33 05	3003*	15.0		
12 06.1	+ 37 05		14.7		
12 06.5	+ 32 56		15.5		
12 07.2	+ 36 45		15.4		
12 07.4	+ 36 43		15.5		
12 07.6	+ 36 09	4148	14.6		
12 08.3	+ 36 54		14.8		compact
12 08.8	+ 36 07		15.0		
12 09.5	+ 33 00		15.6		
12 09.6	+ 36 27	4163	13.7		
12 10.1	+ 34 59		15.4		double system
12 10.6	+ 32 52		15.7		
12 10.9	+ 37 58		15.7		
12 11.2	+ 36 55	4190	13.5		m_H = 13.2
12 11.6	+ 32 43		15.1		very compact
12 11.7	+ 34 54		15.5		compact
12 11.8	+ 32 42		14.6		compact
12 12.3	+ 33 18		15.7		
12 12.5	+ 33 28	4203	11.8	+1001	m_H = 12.0 SBa
12 12.5	+ 36 14		14.2		
12 12.6	+ 34 53		15.3		
12 13.1	+ 36 37	4214	10.3	+ 307	m_H = 10.7 I
12 14.0	+ 33 48	4227	13.8		
12 14.1	+ 33 50	4229	14.3		
12 15.0	+ 38 05	4244	10.8	+ 265	m_H = 11.0 Sb
12 16.0	+ 35 54		15.5		very compact
12 18.8	+ 32 59		15.2		
12 18.8	+ 36 37		15.6		
12 19.8	+ 35 25		15.6		
12 21.2	+ 36 25		15.5		
12 21.8	+ 33 28		15.4		
12 23.4	+ 33 49	4395	11.7		m_H = 11.4 Sp *)
12 24.4	+ 38 10		14.7		
12 24.6	+ 37 25		15.6		diffuse spiral
12 26.0	+ 32 50		15.6		diffuse spiral
12 26.0	+ 37 30		15.6		diffuse spiral
12 26.2	+ 36 00		15.3		diffuse
12 27.1	+ 33 11		15.7		

*) NGC Nos. 4399, 4400, 4401 refer to various points on the spiral arms of NGC 4395.

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
4203	-	-	11.78	SB0	11.5	SB0	-	-
4214	10.49	Irr.	-	-	10.2	Irr.	10.12	Ir. I
4244	10.2	Sb	10.81	Sc	10.3	Sc	10.48	Sc+
4395	-	-	-	-	-	-	10.66	Sc+



FIELD No. 188

12^h41^m + 35°30'

Survey Plate No. 105

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
17116	12 31 03.8	+ 38 20 41	6.72
17125	12 31 19.9	+ 33 39 37	6.37
17231	12 36 51.1	+ 36 13 35	6.32
17244	12 37 42.8	+ 34 26 24	7.52
17430	12 47 48.3	+ 37 47 19	5.86
17517	12 51 49.9	+ 33 48 17	6.26

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1226.8 + 3525	compact	67	1.1	ED	10
1228.4 + 3228	compact	141	1.1	ED	3
1229.7 + 3325	medium compact	65	2.4	VD	9
1231.9 + 3732	medium compact	180	7.4	D	27
1233.4 + 3448	medium compact	122	5.0	D	26
1233.6 + 3825	compact	70	1.4	ED	21
1235.8 + 3234	medium compact	153	1.6	VD	2
1236.5 + 3453	compact	76	1.3	ED	25
1237.3 + 3758	compact	79	2.7	VD	20
1239.6 + 3832	medium compact	218	2.9	VD	11
1240.2 + 3549	medium compact	144	4.6	ED	17
1240.5 + 3745	medium compact	75	2.3	VD	19
1241.3 + 3244	open	100	3.3	D	1
1241.6 + 3345	medium compact	171	6.2	MD	24
1242.2 + 3810	medium compact	80	2.0	VD	18
1244.5 + 3303	medium compact	103	3.8	D	23
1245.0 + 3546	compact	192	4.4	VD	16
1249.3 + 3534	medium compact	71	1.8	ED	15
1249.5 + 3232	open	148	2.2	VD	4
1250.7 + 3335	open	98	4.9	D	22
1251.5 + 3636	compact	95	1.3	ED	13
1252.0 + 3617	medium compact	94	1.5	D	14
1252.5 + 3533	medium compact	146	3.6	VD	8
1253.5 + 3635	medium compact	86	2.9	D	12
1254.0 + 3600	compact	106	1.7	ED	7
1254.6 + 3651	compact	59	1.2	ED	6
1255.9 + 3729	medium compact	107	3.8	D	5

Average number of galaxies per cluster = 112.8

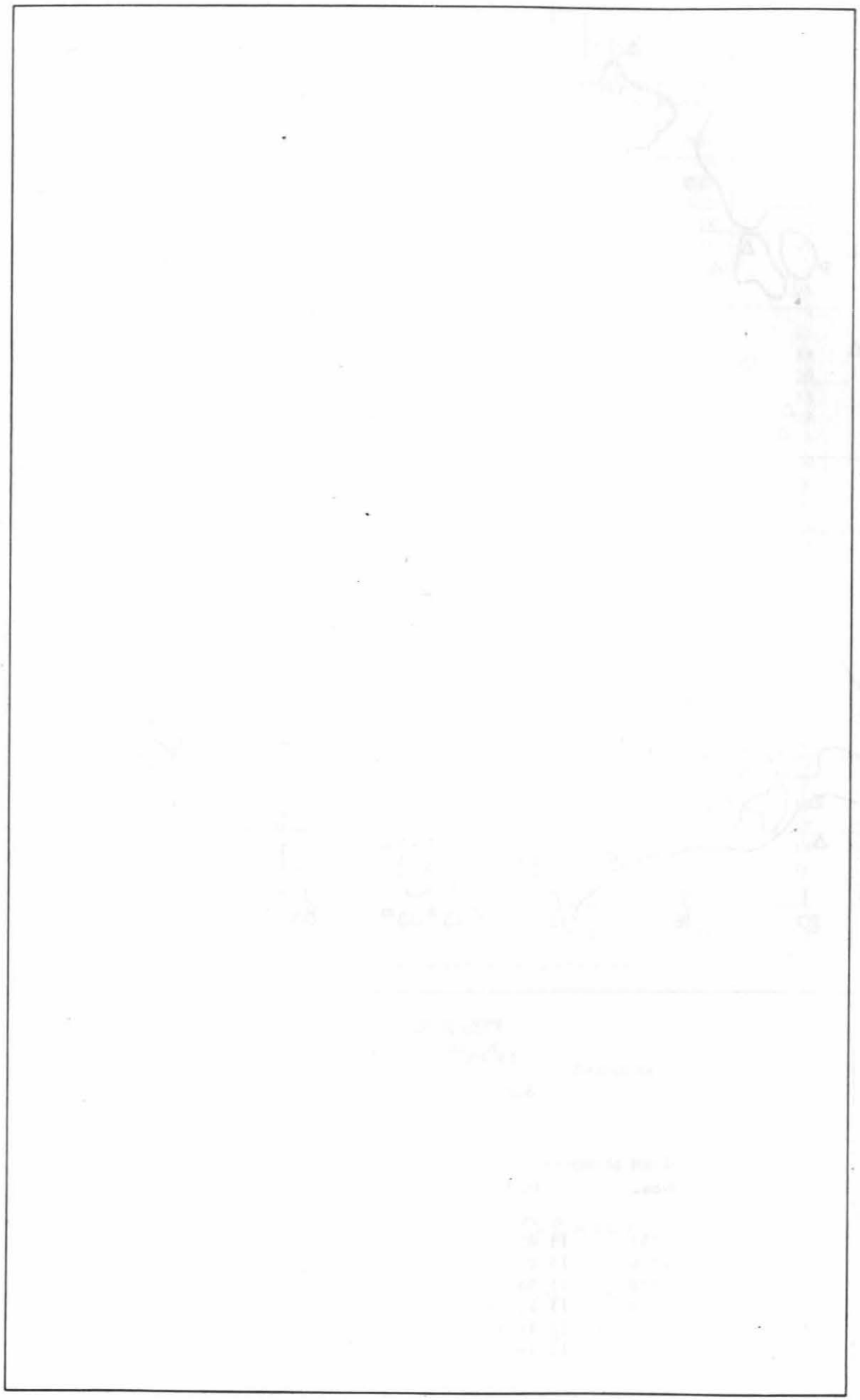
GALAXIES

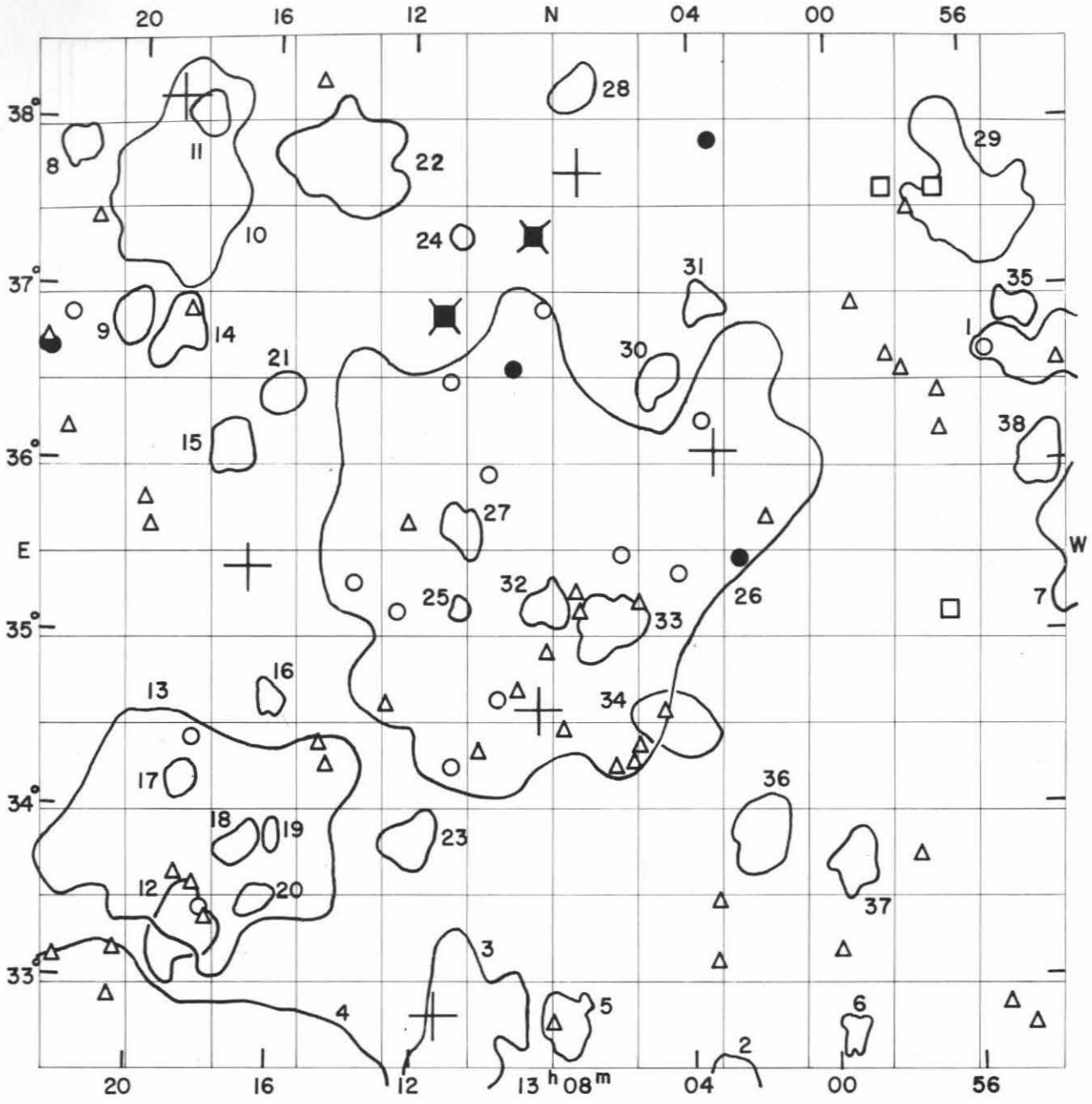
Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
12 26.0	+ 37 30		15.6		diffuse spiral
12 26.2	+ 36 00		15.3		diffuse
12 27.1	+ 33 11		15.7		
12 28.7	+ 36 53		15.3		
12 29.1	+ 38 15		15.2		
12 29.2	+ 33 52		15.6		
12 30.4	+ 37 54		13.4		
12 31.6	+ 35 48	4534	13.2		
12 32.7	+ 34 24		15.2		
12 35.5	+ 34 17		15.5		
12 35.6	+ 33 44	4583	14.7		
12 36.5	+ 38 22		15.4		faint streamers around it
12 37.4	+ 35 15		15.5		compact
12 39.3	+ 35 20	4619	13.5		
12 39.5	+ 32 51	4627	13.3		
12 39.7	+ 32 49	4631	9.8	+ 591	m_H = 9.6 Sc
12 40.3	+ 33 33		15.7		
12 42.1	+ 37 23	4662	14.1		
12 43.2	+ 38 05	3746*	15.6		
12 44.6	+ 36 47	3772*	15.7		
12 45.0	+ 35 37	4687	14.3		

Position α 1950 h m	δ ° ′	NGC IC*	m_p	V_s km/sec	Remarks
12 46.4	+35 36	3804*	14.4		
12 46.6	+35 08		15.7		
12 47.7	+33 25	4719	14.2		
12 48.5	+34 25	4737	15.3		
12 50.8	+37 05	4774	14.6		double system, faint bridge
12 52.2	+35 33		15.6		diffuse
12 52.6	+35 39		14.8		
12 53.4	+36 33	3904*	15.7		
12 54.6	+32 43		15.1		eccentric nucleus, jet
12 55.3	+32 49		15.6		
12 55.5	+36 38	4846	14.6		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
4627	-	-	-	-	-	-	13.01	S
4631	9.4	Sc	9.91	Sc	9.6	Sc	9.71	Sc+





FIELD No. 189

13^h08^m + $35^o30'$

Survey Plate No. 110

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
17751	13 03 24.3	+ 36 03 57	5.11
17826	13 07 20.5	+ 37 41 20	6.14
17848	13 08 26.2	+ 34 33 59	6.84
17914	13 11 24.3	+ 32 47 43	6.75
18023	13 16 46.4	+ 35 23 24	5.96
18069	13 18 54.9	+ 38 07 07	6.86

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1252.5 + 3533	medium compact	146	3.6	VD	7
1253.5 + 3635	medium compact	86	2.9	D	1
1254.0 + 3600	compact	106	1.7	ED	38
1254.6 + 3651	compact	59	1.2	ED	35
1255.9 + 3729	medium compact	107	3.8	D	29
1259.5 + 3341	compact	74	1.7	ED	37
1259.6 + 3241	medium compact	72	0.9	ED	6
1302.1 + 3350	compact	147	2.1	VD	36
1303.3 + 3206	compact	297	3.8	D	2
1303.8 + 3656	medium compact	96	1.2	ED	31
1304.4 + 3430	medium compact	139	2.3	ED	34
1305.0 + 3630	compact	79	1.3	ED	30
1306.4 + 3503	medium compact	94	2.0	VD	33
1307.5 + 3810	medium compact	90	1.4	VD	28
1307.6 + 3245	compact	86	1.7	ED	5
1308.2 + 3510	compact	88	1.4	ED	32
1308.2 + 3531	open	210	14.3	Near	26
1310.6 + 3536	compact	83	1.4	ED	27
1310.7 + 3510	compact	46	0.6	ED	25
1310.7 + 3719	compact	51	0.7	ED	24
1310.8 + 3230	medium compact	211	4.9	D	3
1312.1 + 3349	medium compact	113	1.7	ED	23
1314.0 + 3745	medium compact	122	3.6	MD	22
1315.9 + 3623	medium compact	108	1.3	ED	21
1316.0 + 3351	compact	57	0.7	ED	19
1316.1 + 3438	compact	70	0.9	ED	16
1316.4 + 3328	compact	54	0.9	ED	20
1317.0 + 3347	compact	80	1.1	ED	18
1317.3 + 3605	medium compact	78	1.5	ED	15
1317.9 + 3350	compact	147	8.4	Near	13
1318.2 + 3801	medium compact	61	1.3	ED	11
1318.5 + 3316	medium compact	163	2.3	ED	12
1318.6 + 3410	medium compact	81	1.0	VD	17
1318.9 + 3645	compact	116	1.8	ED	14
1319.0 + 3736	medium compact	105	5.3	MD	10
1319.6 + 3135	open	411	16.2	Near	4
1320.3 + 3649	compact	73	1.5	ED	9
1322.0 + 3750	compact	69	1.2	VD	8

Average number of galaxies per cluster = 112.5

GALAXIES

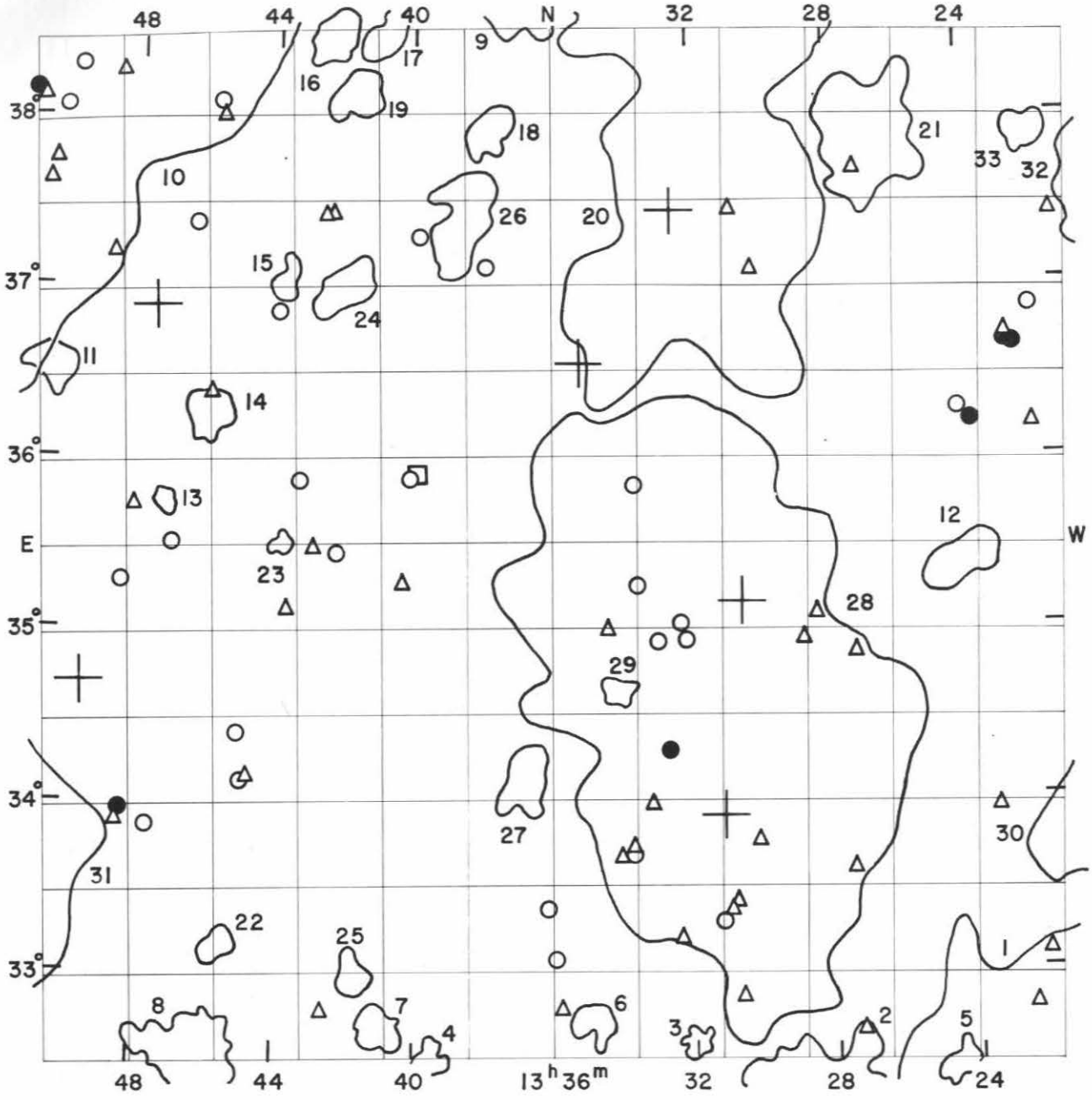
Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
12 53.4	+ 36 33	3904*	15.7		
12 54.6	+ 32 43		15.1		eccentric nucleus, jet
12 55.3	+ 32 49		15.6		
12 55.5	+ 36 38	4846	14.6		
12 56.7	+ 35 08	4861+3961*	12.8	+ 793	m_H = 12.7 S *)
12 56.8	+ 36 11		15.4		
12 56.8	+ 36 23	3967*	15.7		
12 56.8	+ 37 34	4868	12.9		m_H = 13.1
12 57.7	+ 33 42		15.2		
12 57.7	+ 37 27	4893	15.6		= 4015*+4016*, double system
12 57.9	+ 36 31	4028*	15.5		
12 58.4	+ 36 37	4049*	15.3		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
12 58.4	+37 35	4914	12.7		m_H = 13.0
12 59.4	+36 54	4086*	15.7		
13 00.0	+33 09		15.5		
13 01.9	+35 41		15.7		compact
13 02.7	+35 27	4956	13.5		
13 03.3	+33 27	4959	15.4		compact
13 03.4	+33 06		15.5		
13 03.5	+37 52	4182*	14.0		
13 03.7	+36 14	4189*	14.5		
13 04.4	+35 22		14.7		
13 04.8	+34 34		15.7		
13 05.5	+34 21		15.5		
13 05.5	+35 11		15.3		
13 05.7	+34 16		15.6		very compact
13 06.0	+35 28	4986	14.2		
13 06.3	+34 15		15.7		
13 07.3	+35 08		15.7		
13 07.4	+35 15		15.6		
13 07.7	+34 27		15.1		
13 08.0	+32 45		15.6		
13 08.2	+34 54		15.7		
13 08.3	+36 53	5002	14.7		
13 08.6	+37 19	5005	10.6	+1027	m_H = 11.3 Sc
13 09.0	+34 41		15.5		
13 09.2	+36 32	5014	13.5		
13 09.6	+34 38		14.8		
13 09.8	+35 56	4213*	14.1		
13 10.1	+34 20		15.7		
13 10.8	+34 15		15.0		
13 11.0	+36 28		14.7		
13 11.2	+36 51	5033	10.9	+ 916	m_H = 11.6 Sc
13 12.1	+35 38		15.4		
13 12.5	+35 08		14.9		
13 12.8	+34 35	861*	15.6		
13 13.8	+35 18		14.6		
13 14.5	+34 15		15.7		compact
13 14.7	+34 22		15.4		
13 14.8	+38 12		15.7		
13 17.8	+33 21	5096	15.1		triple system, connected
13 18.0	+33 24	5098	15.0		double system in halo
13 18.3	+33 33		15.4		
13 18.3	+34 25	883*	14.8		system with two jets
13 18.6	+36 52		15.6		
13 18.7	+33 36		15.5		
13 19.6	+35 37		15.5		
13 19.7	+35 46		15.4		
13 20.4	+33 08		15.7		
13 20.5	+32 53		15.6		
13 21.4	+37 24		15.6		
13 22.1	+33 06		15.6		
13 22.1	+36 10		15.3		
13 22.1	+36 51		14.6		
13 22.6	+36 38	5141	13.9		
13 22.8	+36 40	5142	14.0		
13 22.8	+36 42	5143	15.5		

) IC 3961 is a spiral galaxy of magnitude 14.1, seen edgewise. NGC 4861 is a bright emission patch of magnitude 13.2 at the SW end of the galaxy. The integrated magnitude is therefore m_p = 12.8.

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
4861	-	-	13.10	Irr.	12.9	Irr.	-	-
5005	-	-	10.71	Sb	10.6	Sb	10.52	Sb+
5033	11.4	-	10.78	Sc	10.6	Sc	10.61	Sc-



FIELD No. 190

13^h36^m $+35^\circ30'$

Survey Plate No. 116

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
18319	13 30 35.6	+ 35 09 49	6.80
18330	13 31 06.5	+ 33 54 50	6.80
18359	13 32 34.0	+ 37 26 17	4.96
18421	13 35 14.4	+ 36 32 55	4.92
18691	13 47 34.3	+ 36 52 48	6.35
18741	13 49 35.2	+ 34 41 28	4.96

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1317.9 + 3350	compact	147	8.4	Near	30
1319.0 + 3736	medium compact	105	5.3	MD	32
1319.6 + 3135	open	411	16.2	Near	1
1322.0 + 3750	compact	69	1.2	VD	33
1324.1 + 3520	medium compact	131	1.8	ED	12
1324.5 + 3225	medium compact	120	1.2	ED	5
1326.6 + 3750	medium compact	117	3.6	Near	21
1328.5 + 3205	medium compact	419	5.0	VD	2
1331.5 + 3432	medium compact	355	14.4	MD	28
1331.7 + 3805	open	365	12.4	MD	20
1331.9 + 3234	medium compact	94	0.8	ED	3
1334.1 + 3438	compact	63	0.9	ED	29
1334.8 + 3241	compact	56	1.3	ED	6
1336.8 + 3407	medium compact	100	1.8	VD	27
1337.0 + 3840	medium compact	266	2.2	ED	9
1337.8 + 3753	medium compact	78	1.4	MD	18
1338.6 + 3722	medium compact	171	2.4	VD	26
1339.4 + 3229	compact	77	1.0	ED	4
1340.9 + 3238	open	63	1.3	ED	7
1340.9 + 3827	medium compact	117	1.4	ED	17
1341.7 + 3257	compact	92	1.1	ED	25
1341.7 + 3805	medium compact	81	1.4	ED	19
1342.1 + 3658	medium compact	120	1.7	VD	24
1342.4 + 3826	compact	176	1.6	VD	16
1343.7 + 3700	compact	82	1.0	ED	15
1343.8 + 3528	compact	47	0.6	ED	23
1345.5 + 3309	medium compact	57	1.0	ED	22
1345.9 + 3614	medium compact	83	1.5	ED	14
1346.1 + 3230	medium compact	162	2.8	D	8
1347.1 + 3544	compact	60	0.7	ED	13
1350.6 + 3630	medium compact	82	1.5	D	11
1351.3 + 3333	medium compact	129	6.2	Near	31
1352.9 + 3856	medium compact	310	22.1	Near	10

Average number of galaxies per cluster = 145.6

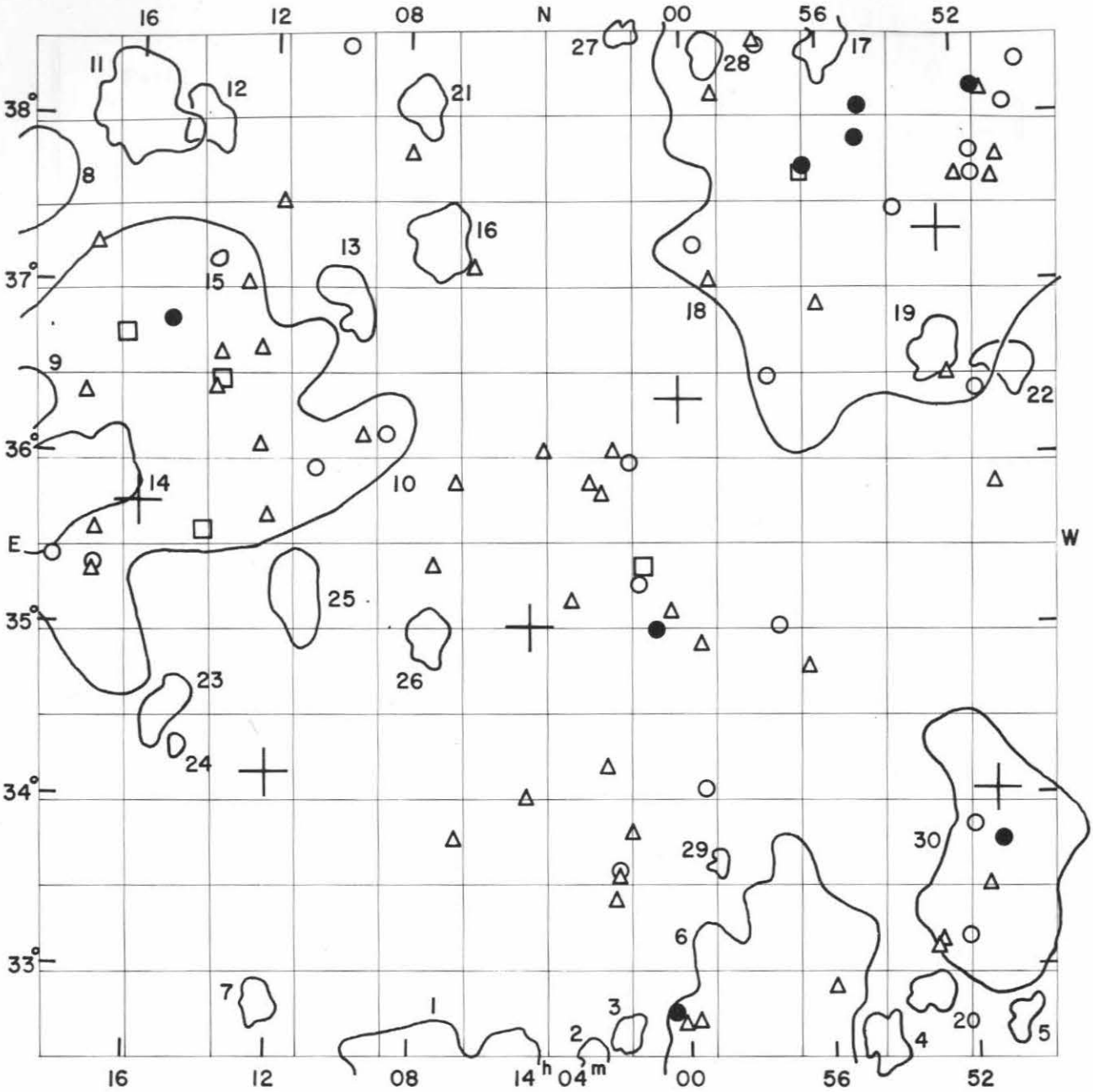
GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
13 21.4	+ 37 24		15.6		
13 22.1	+ 33 06		15.6		
13 22.1	+ 36 10		15.3		
13 22.1	+ 36 51		14.6		
13 22.5	+ 32 48		15.3		
13 22.6	+ 36 38	5141	13.9		
13 22.8	+ 36 40	5142	14.0		
13 22.8	+ 36 42	5143	15.5		
13 23.4	+ 33 56		15.3		
13 23.9	+ 36 12	5149	13.8		
13 24.2	+ 36 16	5154	14.9		
13 27.1	+ 37 40	4271*	15.6		double nebula
13 27.3	+ 32 40		15.1		
13 27.4	+ 34 52		15.5		
13 27.5	+ 33 36		15.4		double system

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
13 28.4	+35 05	5199	15.1		compact
13 28.8	+34 56		15.7		
13 30.2	+33 46		15.7		compact
13 30.3	+37 06		15.7		
13 30.7	+32 52		15.5		very compact
13 30.8	+37 27		15.6		double system, twisted arms
13 30.9	+33 25		15.5		
13 31.0	+33 22		15.6		
13 31.2	+33 18		14.4		
13 32.1	+34 57	5223	14.4		
13 32.3	+35 02	5228	14.5		
13 32.4	+33 13		15.4		extremely compact
13 32.6	+34 18		13.8		
13 32.9	+34 56	5233	14.8		
13 33.2	+33 58		15.7		compact
13 33.5	+35 15		14.6		
13 33.7	+33 41	4304*	15.0		
13 33.7	+33 44	4305*	15.1		
13 33.7	+35 50	5240	14.1		
13 34.0	+33 40	4306*	15.7		
13 34.4	+35 00		15.4		
13 35.8	+32 48		15.7		
13 35.9	+33 05		15.0		
13 36.1	+33 23		14.3		
13 37.9	+37 07	5265	14.9		
13 39.8	+35 54	5273	12.7	+1022	m_H = 12.9 E
13 39.8	+37 17		14.6		
13 40.1	+35 53	5276	14.6		
13 40.3	+35 16		15.2		
13 42.2	+35 26		14.5		
13 42.4	+37 25		15.6		
13 42.6	+32 47		15.2		
13 42.6	+37 25		15.2		
13 42.9	+35 27		15.2		
13 43.4	+35 52		15.0		
13 43.6	+35 07		15.6		
13 44.0	+36 50		15.0		
13 44.8	+34 09		15.5		
13 44.9	+34 08		14.8		
13 45.1	+34 24		14.5		
13 45.6	+37 59		15.4		
13 45.7	+38 04	5305	14.7		
13 45.9	+36 22		15.7		
13 46.4	+37 21		14.9		
13 47.0	+35 30		14.7		
13 47.6	+33 52	5312	14.8		
13 48.1	+35 43		15.3		
13 48.3	+33 57	5318	13.5		double system, faint bridge
13 48.4	+35 17		14.8		
13 48.5	+33 53	5321	15.3		
13 48.6	+38 15		15.4		diffuse spiral
13 48.8	+37 12		15.1		
13 49.9	+38 19		14.8		
13 50.4	+38 04	5341	14.1		
13 50.6	+37 45		15.5		
13 50.8	+37 37		15.7		
13 51.0	+38 08	5349	15.1		
13 51.3	+38 10	5351	13.1		m_H = 13.0

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
5273	-	-	-	-	12.5	S0	-	-



FIELD No. 191

14^h04^m $+35^o30'$

Survey Plate No. 106

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
18776	13 51 10.7	+ 34 01 56	7.20
18811	13 52 28.9	+ 37 18 43	7.48
18967	14 00 11.4	+ 36 21 11	7.10
19059	14 04 32.1	+ 35 00 58	7.07
19219	14 12 07.8	+ 34 09 38	8.6
19296	14 15 53.0	+ 35 44 22	4.83

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1350.6 + 3239	medium compact	97	1.0	ED	5
1350.6 + 3630	medium compact	82	1.5	D	22
1351.3 + 3333	medium compact	129	6.2	Near	30
1352.6 + 3636	medium compact	94	1.7	VD	19
1352.9 + 3856	medium compact	310	22.1	Near	18
1353.2 + 3250	medium compact	70	1.3	ED	20
1354.4 + 3234	medium compact	184	1.7	ED	4
1355.9 + 3827	medium compact	71	1.8	VD	17
1357.6 + 3244	open	122	7.4	Near	6
1359.1 + 3337	medium compact	40	0.6	ED	29
1359.4 + 3821	medium compact	56	1.2	ED	28
1401.6 + 3237	compact	91	1.1	ED	3
1401.9 + 3829	compact	47	0.8	ED	27
1402.6 + 3227	compact	84	1.1	ED	2
1407.2 + 3715	medium compact	76	2.1	VD	16
1407.5 + 3216	open	125	5.0	D	1
1407.5 + 3456	medium compact	86	1.5	ED	26
1407.7 + 3803	medium compact	85	1.6	VD	21
1409.8 + 3655	medium compact	117	1.7	ED	13
1411.3 + 3510	medium compact	55	2.3	ED	25
1412.1 + 3248	medium compact	96	1.1	VD	7
1413.7 + 3709	compact	40	0.3	ED	15
1414.1 + 3758	compact	79	1.7	VD	12
1414.6 + 3417	compact	47	0.6	ED	24
1415.0 + 3430	medium compact	54	1.6	VD	23
1416.0 + 3802	medium compact	120	3.2	D	11
1416.2 + 3606	open	161	13.1	Near	10
1418.5 + 3545	medium compact	142	4.2	D	14
1419.2 + 3616	compact	87	1.8	VD	9
1420.0 + 3734	medium compact	156	3.6	VD	8

Average number of galaxies per cluster = 100.1

GALAXIES

Position α 1950 δ h m o '	NGC IC*	m_p	V_s km/sec	Remarks
13 49.9 + 38 19		14.8		
13 50.4 + 38 04	5341	14.1		
13 50.6 + 37 45		15.5		
13 50.8 + 37 37		15.7		
13 51.0 + 35 50		15.6		very compact
13 51.0 + 38 08	5349	15.1		
13 51.1 + 33 45	5347	13.3		m_H = 13.2
13 51.3 + 38 10	5351	13.1		m_H = 13.0
13 51.4 + 36 23	5352	14.2		
13 51.4 + 37 38		15.0		
13 51.4 + 37 46	4341*	14.9		
13 51.5 + 33 28		15.3		triple system in halo
13 51.9 + 33 50		14.4		compact, two plumes
13 51.9 + 37 38		15.6		
13 52.1 + 33 11		14.8		
13 52.2 + 36 28		15.6		
13 52.8 + 33 09		15.6		
13 53.0 + 33 07		15.5		

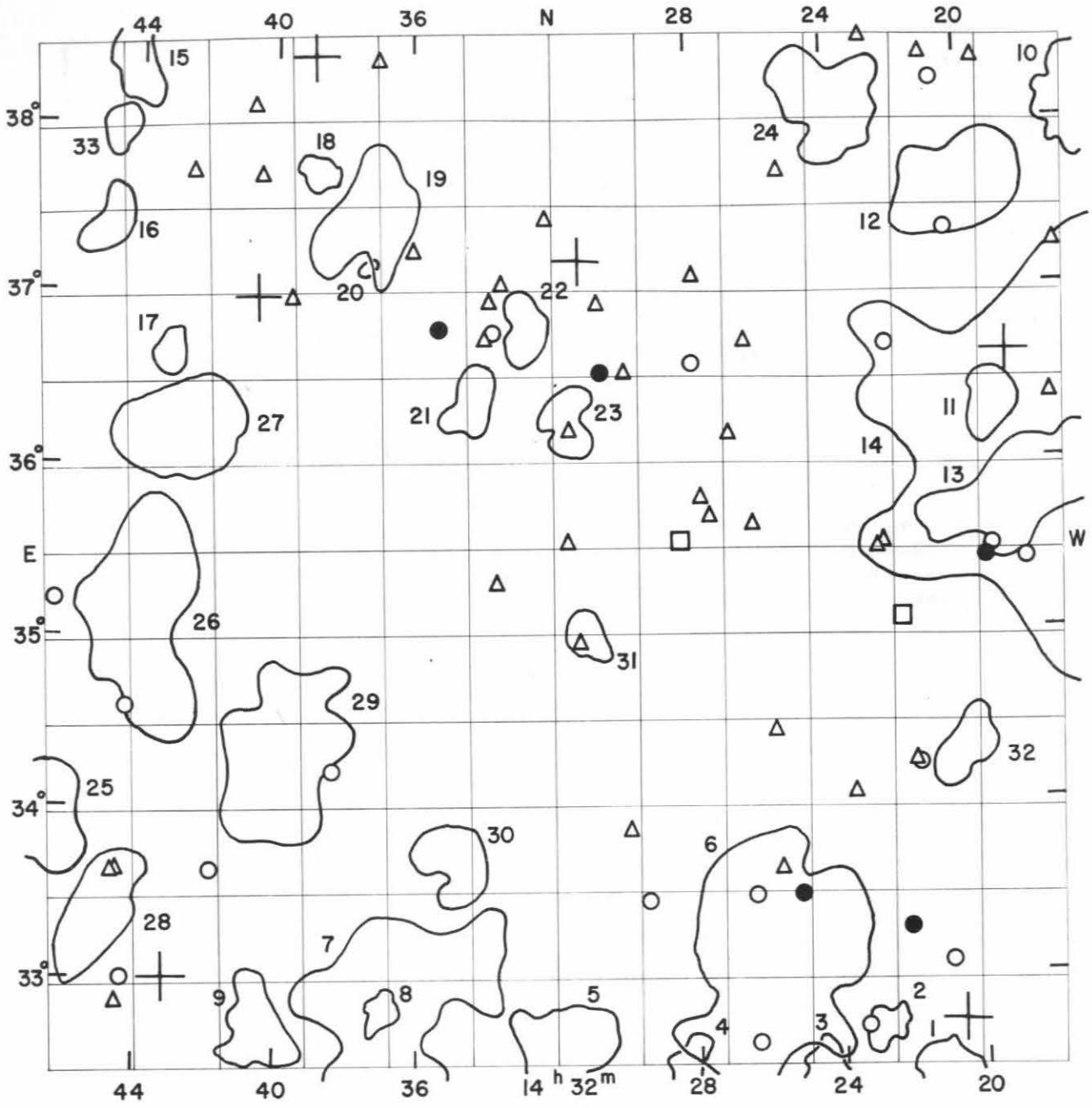
Position α 1950 δ		NGC IC*	m_p	V_s km/sec	Remarks
h m	° ′				
13 53.7	+37 26		14.9		
13 54.7	+38 02	5378	13.8		
13 54.8	+37 51	5380	13.5		m_H = 13.2
13 55.9	+32 53		15.7		
13 56.1	+36 54		15.7		very diffuse spiral
13 56.4	+37 42	5394	13.7	+3558	
13 56.5	+34 46		15.6		
13 56.5	+37 40	5395	12.6		m_H = 13.0
13 57.3	+35 01	5399	14.7		
13 57.5	+36 29	5401	14.6		
13 57.8	+38 25	5403	14.9		
13 57.9	+38 26		15.2		
13 59.1	+38 07		15.5		
13 59.2	+37 02		15.2		
13 59.5	+34 04	5421	14.3		double system
13 59.6	+32 42		15.7		
13 59.6	+34 55		15.3		compact
13 59.7	+37 15		14.6		
14 00.0	+32 41		15.6		
14 00.3	+32 45	5433	14.0		
14 00.4	+35 06		15.5		
14 00.8	+35 00	5440	13.4		
14 01.2	+35 23	5444	12.8		m_H = 13.1
14 01.3	+35 16	5445	14.1		
14 01.5	+33 48		15.5		extremely compact
14 01.6	+35 59		14.2		
14 01.9	+33 33	4369*	15.3		
14 01.9	+33 35	4370*+4371*	15.0		double system
14 02.0	+33 25		15.4		
14 02.1	+36 02		15.4		
14 02.2	+34 12		15.7		
14 02.4	+35 47		15.4		
14 02.8	+35 51		15.7		
14 03.3	+35 10		15.7		
14 04.1	+36 01		15.1		
14 04.6	+34 00		15.6		
14 06.1	+37 07		15.5		
14 06.6	+35 51		15.5		
14 06.7	+33 46		15.6		
14 07.2	+35 22		15.7		
14 08.0	+37 47	4380*	15.1		
14 08.7	+36 08	5499	14.5		
14 09.4	+36 07		15.6		compact
14 09.9	+38 25		14.8		
14 10.8	+35 56	5517	15.0		
14 11.7	+37 29		15.3		
14 12.1	+35 39		15.7		
14 12.3	+36 04		15.6		
14 12.3	+36 38	5524	15.3		
14 12.8	+37 00		15.4		
14 13.4	+36 27	5529	12.9	+3781	m_H = 12.9 *)
14 13.5	+36 36	5533	15.4		
14 13.6	+36 24		15.7		
14 14.0	+35 34		13.0		
14 15.0	+36 48	5544+5545	13.2		double system, contact
14 16.3	+36 43	5557	12.2	+3195	m_H = 12.6 E
14 17.1	+35 22	5567	15.0		compact
14 17.1	+35 33		15.4		compact
14 17.2	+35 19	5568	15.7		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
14 17.2	+37 14		15.7		
14 17.5	+36 22	5572	15.2		
14 18.3	+35 25	5579	14.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958		
5394	-	-	13.51	Sb	13.6	Sb	-	-	
5395	-	-	12.44	Sb	-	-	-	-	
5529	-	-	12.82	Sb	12.7	Sb	-	-	*)
5557	-	-	12.33	E1	12.3	E1	-	-	

*) V_s, m_H and all the information from other sources for NGC 5529 were originally published under the designation NGC 5533. This, however, was a clear case of mistaken identity. Position and description of NGC 5529, as given in the NGC, fit the object perfectly.



FIELD No. 192

14^h32^m $+35^o30'$

Survey Plate No. 127

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
19353	14 18 45.4	+ 36 37 13	7.18
19393	14 20 29.5	+ 32 43 51	7.12
19636	14 31 17.6	+ 37 10 45	6.44
19784	14 38 58.6	+ 38 21 42	7.34
19821	14 40 38.2	+ 36 58 07	7.26
19867	14 43 08.1	+ 32 59 57	6.47

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1416.0 + 3802	medium compact	120	3.2	D	10
1416.2 + 3606	open	161	13.1	Near	14
1418.5 + 3545	medium compact	142	4.2	D	13
1419.2 + 3616	compact	87	1.8	VD	11
1420.0 + 3734	medium compact	156	3.6	VD	12
1420.2 + 3417	medium compact	100	1.9	ED	32
1421.0 + 3224	medium compact	96	2.1	VD	1
1422.7 + 3241	medium compact	104	1.3	ED	2
1423.9 + 3804	compact	174	3.2	VD	24
1424.3 + 3227	compact	202	1.5	ED	3
1425.6 + 3305	medium compact	302	6.5	D	6
1428.0 + 3225	open	120	1.6	VD	4
1431.0 + 3459	medium compact	84	1.3	ED	31
1431.6 + 3614	medium compact	72	1.8	VD	23
1431.8 + 3235	open	114	2.9	VD	5
1432.8 + 3645	compact	114	1.7	ED	22
1434.4 + 3620	medium compact	108	1.7	ED	21
1434.9 + 3341	medium compact	127	2.2	ED	30
1436.4 + 3252	open	197	5.4	D	7
1436.8 + 3249	compact	71	1.1	ED	8
1437.4 + 3707	compact	47	0.5	ED	20
1437.4 + 3725	medium compact	104	3.4	MD	19
1438.8 + 3741	compact	64	1.1	ED	18
1439.9 + 3415	medium compact	148	4.6	D	29
1440.3 + 3243	open	97	2.5	D	9
1442.7 + 3611	medium compact	93	3.6	D	27
1443.1 + 3639	medium compact	71	1.1	ED	17
1443.8 + 3504	medium compact	153	5.0	MD	26
1444.2 + 3820	medium compact	109	2.0	ED	15
1444.7 + 3757	compact	78	1.2	ED	33
1444.9 + 3322	medium compact	144	3.0	MD	28
1445.0 + 3723	medium compact	61	1.7	ED	16
1447.1 + 3355	medium compact	124	3.8	D	25

Average number of galaxies per cluster = 119.5

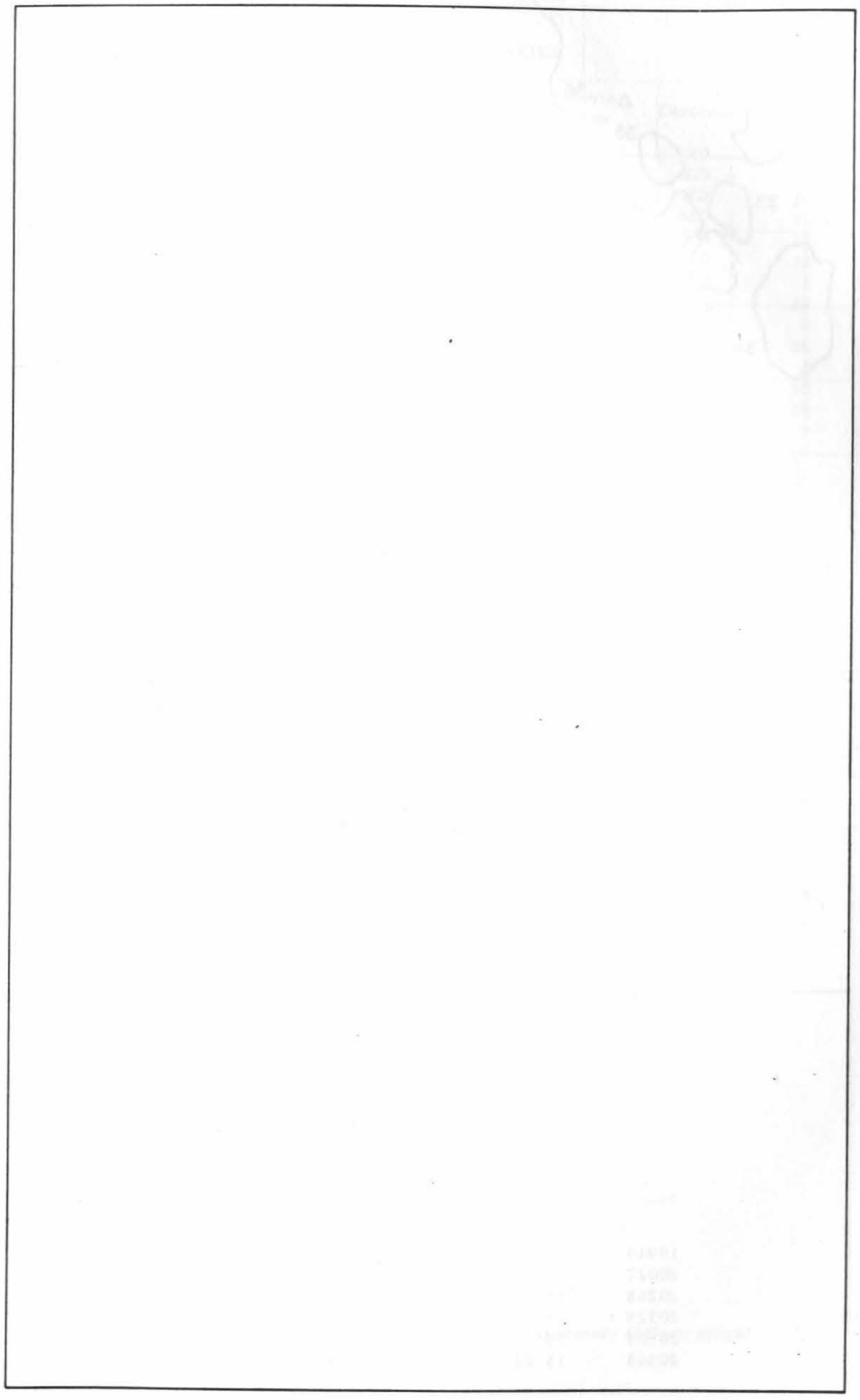
GALAXIES

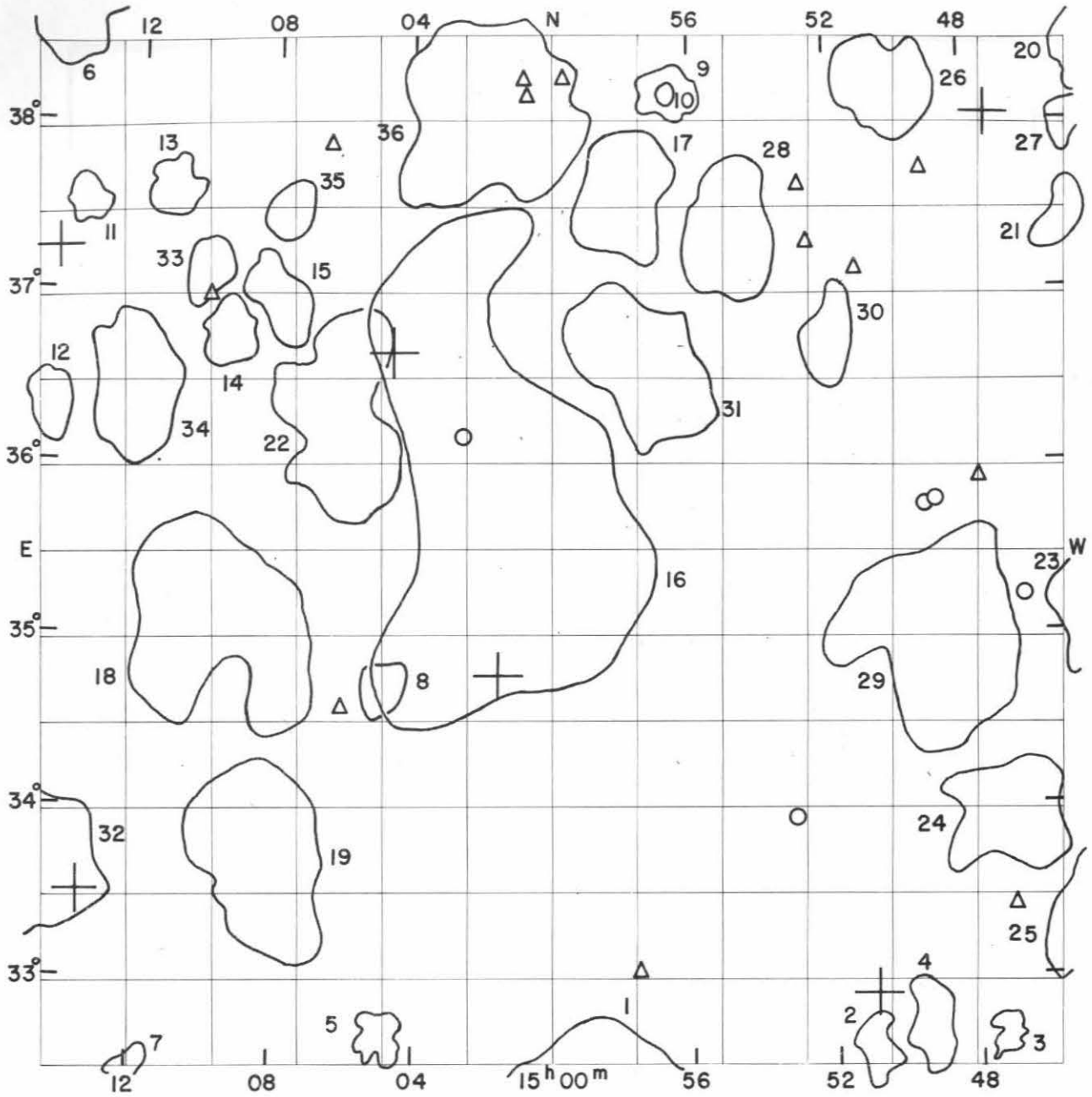
Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
14 17.2	+ 37 14		15.7		
14 17.5	+ 36 22	5572	15.2		
14 18.3	+ 35 25	5579	14.7		
14 19.3	+ 35 29	5589	14.3		
14 19.4	+ 38 20		15.1		
14 19.5	+ 35 25	5590	13.6		
14 20.4	+ 37 20	5596	14.5		
14 20.7	+ 38 13		15.0		double system
14 20.8	+ 33 04		14.5		
14 21.0	+ 38 21		15.6		
14 21.6	+ 34 14		14.4		
14 21.7	+ 34 15		15.1		
14 22.0	+ 33 15	5611	13.5		
14 22.0	+ 35 05	5614	12.6	+ 3872	m_H = 12.9 E, halo + plume
14 22.2	+ 36 40	5616	14.8		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
14 22.5	+ 35 30		15.4		
14 22.6	+ 35 29		15.4		
14 22.8	+ 38 28		15.2		
14 23.2	+ 32 42		14.2		
14 23.4	+ 34 04		15.6		very diffuse spiral
14 25.0	+ 33 28	5623	13.7		
14 25.3	+ 37 41	4435*	15.3		
14 25.6	+ 33 37		15.6		
14 25.6	+ 34 25		15.4		
14 26.3	+ 32 37		14.8		
14 26.3	+ 33 28		14.9		
14 26.3	+ 35 37		15.3		
14 26.4	+ 36 42		15.7		
14 26.9	+ 36 10		15.5		
14 27.5	+ 35 40	5646	15.2		
14 27.7	+ 35 47		15.4		double system
14 27.9	+ 36 35	5654	14.1		double nucleus
14 27.9	+ 37 05		15.5		
14 28.3	+ 35 32	5656	12.7		
14 29.3	+ 33 27		14.6		
14 29.8	+ 33 51		15.2		double system
14 29.9	+ 36 31		15.3		double system
14 30.6	+ 36 31	5675	14.0		
14 30.7	+ 36 55		15.5		
14 31.2	+ 34 57		15.6		
14 31.5	+ 36 10		15.5		
14 31.6	+ 35 31		15.7		
14 32.2	+ 37 24		15.7		
14 33.5	+ 37 01		15.3		
14 33.7	+ 35 17		15.7		
14 33.8	+ 36 45	5684	14.2		
14 33.9	+ 36 56		15.3		
14 34.0	+ 36 43	5686	15.2		
14 35.3	+ 36 46	5695	13.9		
14 36.0	+ 37 13		15.7		
14 37.1	+ 38 20		15.6		
14 38.4	+ 34 12	5727	14.6		
14 39.6	+ 36 57		15.7		
14 40.5	+ 37 40	4492*	15.6		compact
14 40.8	+ 38 05		15.7		
14 41.9	+ 33 37	4496*	15.0		
14 42.5	+ 37 41	4500*	15.6		
14 44.3	+ 32 59		14.5		
14 44.3	+ 34 35		14.4		
14 44.4	+ 32 51		15.6		
14 44.5	+ 33 37	4505*	15.1		
14 44.6	+ 33 36	4506*	15.5		
14 46.4	+ 35 12		14.9		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
5614	-	-	-	-	12.5	Sa	-	-





FIELD No. 193

15^h00^m $+35^\circ30'$

Survey Plate No. 1610

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
19949	14 47 08.9	+ 38 00 59	5.98
20027	14 50 49.0	+ 32 53 41	6.87
20265	15 01 35.8	+ 34 45 39	6.43
20329	15 04 37.5	+ 36 38 49	6.30
20523	15 13 29.2	+ 33 30 01	3.54
20543	15 14 26.9	+ 37 15 07	7.08

CLUSTERS OF GALAXIES

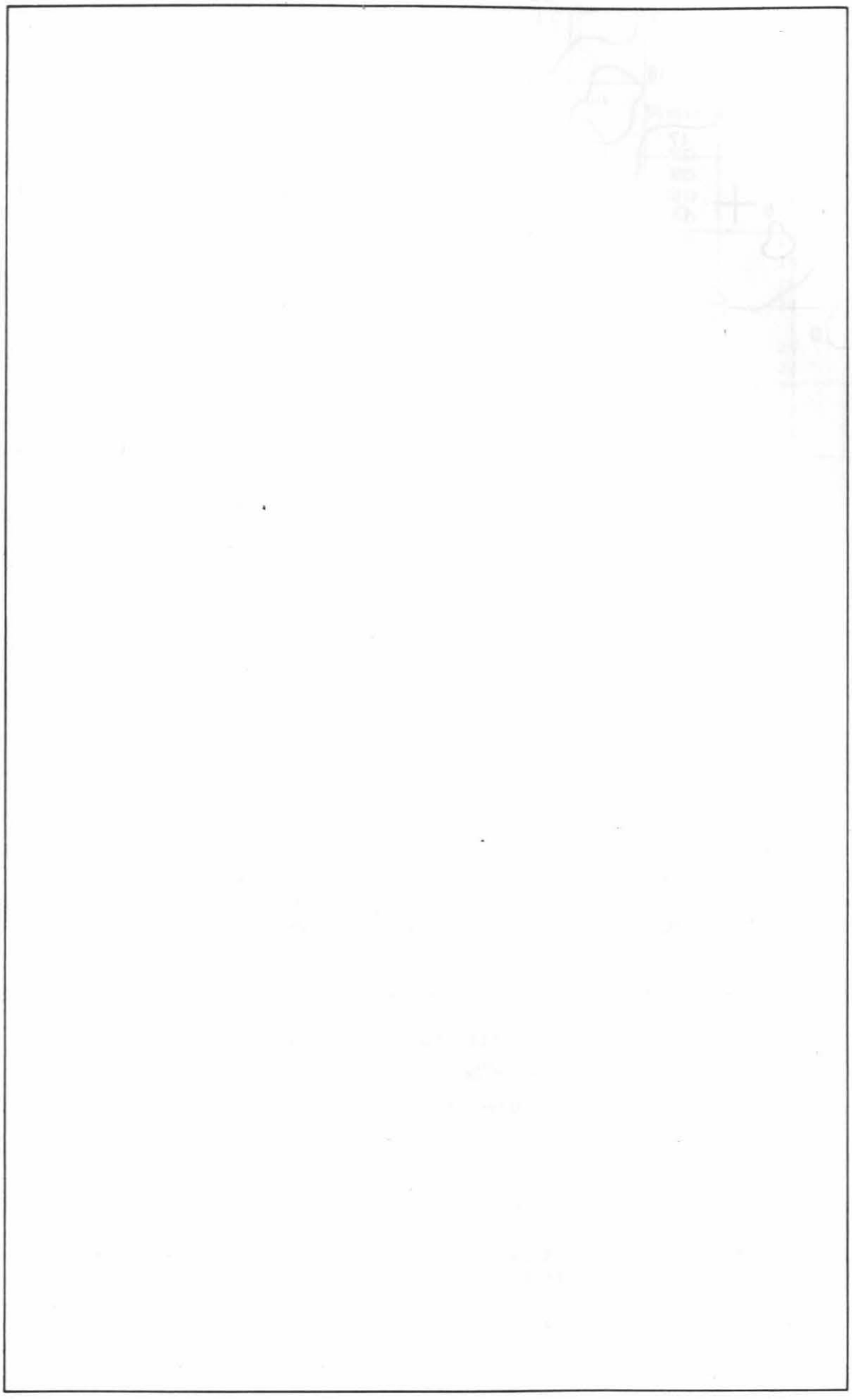
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1443.8 + 3504	medium compact	153	5.0	MD	23
1444.2 + 3820	medium compact	109	2.0	ED	20
1444.7 + 3757	compact	78	1.2	ED	27
1444.9 + 3322	medium compact	144	3.0	MD	25
1445.0 + 3723	medium compact	61	1.7	ED	21
1447.1 + 3355	medium compact	124	3.8	D	24
1447.2 + 3238	medium compact	101	1.1	ED	3
1448.9 + 3456	open	149	5.9	D	29
1449.3 + 3241	medium compact	121	2.0	D	4
1450.2 + 3811	compact	224	3.2	ED	26
1450.9 + 3233	medium compact	76	1.6	VD	2
1452.0 + 3642	compact	103	2.1	VD	30
1454.8 + 3719	medium compact	118	3.6	VD	28
1456.5 + 3810	medium compact	79	1.6	VD	9
1456.6 + 3810	compact	51	0.5	ED	10
1457.3 + 3634	medium compact	124	4.5	D	31
1458.0 + 3733	open	91	3.5	VD	17
1458.9 + 3218	medium compact	165	4.8	MD	1
1501.5 + 3550	medium compact	152	10.6	Near	16
1501.8 + 3803	medium compact	218	5.9	D	36
1504.8 + 3239	compact	131	1.4	ED	5
1504.9 + 3442	compact	98	1.5	VD	8
1506.2 + 3615	medium compact	147	4.8	MD	22
1507.7 + 3727	medium compact	114	1.6	ED	35
1507.9 + 3656	medium compact	112	2.3	VD	15
1508.2 + 3341	medium compact	145	5.0	D	19
1509.4 + 3645	compact	114	1.9	ED	14
1509.7 + 3502	compact	173	5.9	D	18
1510.0 + 3707	compact	118	1.6	ED	33
1511.1 + 3735	medium compact	85	1.8	ED	13
1511.9 + 3227	medium compact	86	1.1	ED	7
1512.1 + 3627	open	127	3.5	VD	34
1513.6 + 3731	medium compact	76	1.4	ED	11
1514.3 + 3837	medium compact	158	3.0	MD	6
1514.6 + 3619	compact	89	1.7	ED	12
1515.1 + 3337	medium compact	146	5.1	D	32

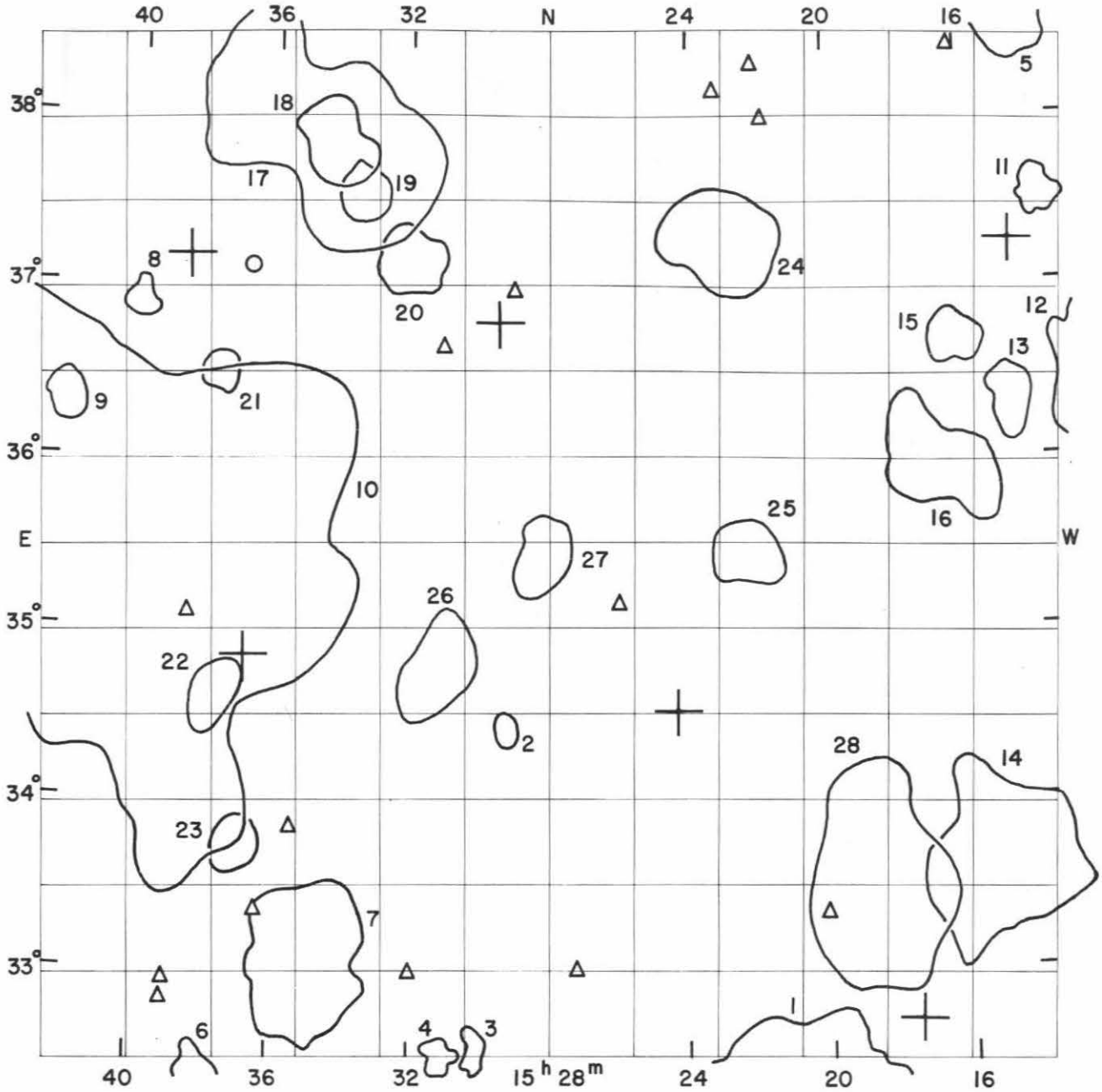
Average number of galaxies per cluster = 121.1

GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
14 46.4	+ 35 12		14.9		
14 46.9	+ 33 24		15.7		
14 47.6	+ 35 54		15.7		compact
14 48.9	+ 35 47		14.5		
14 49.1	+ 37 42		15.6		
14 49.2	+ 35 45		14.2		lateral jets
14 51.1	+ 37 07		15.6		
14 52.5	+ 37 17		15.5		
14 52.8	+ 37 37	4519*	15.3		
14 53.0	+ 33 55	4520*	15.0		
14 57.5	+ 33 02		15.7		extremely diffuse spiral
14 59.7	+ 38 15		15.6		

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
15 00.7	+38 08		15.5		
15 00.8	+38 14		15.6		
15 02.5	+36 09		14.9		
15 06.1	+34 35		15.6		peculiar double nebula
15 06.5	+37 51		15.7		
15 10.0	+36 58		15.7		





FIELD No. 194

15^h28^m $+35^o30'$

Survey Plate No. 107

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
20543	15 14 26.9	+ 37 15 07	7.08
20606	15 17 29.1	+ 32 41 43	6.14
20761	15 24 19.9	+ 34 30 32	5.87
20871	15 29 28.2	+ 36 47 09	6.32
21048	15 36 52.9	+ 34 50 13	6.19
21087	15 38 37.9	+ 37 10 37	6.97

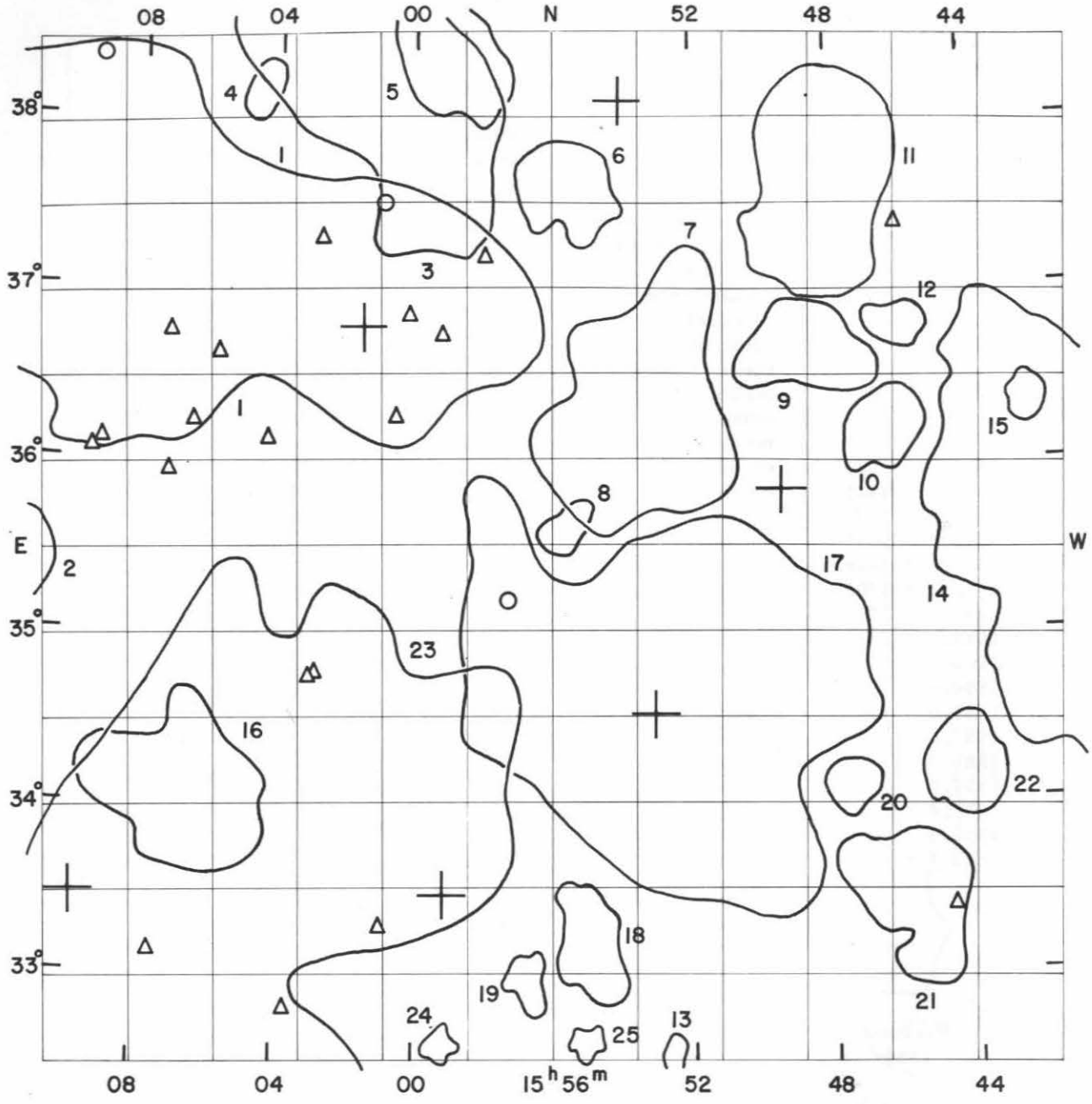
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1512.1 + 3627	open	127	3.5	VD	12
1513.6 + 3731	medium compact	76	1.4	ED	11
1514.3 + 3837	medium compact	158	3.0	MD	5
1514.6 + 3619	compact	89	1.7	ED	13
1515.1 + 3337	medium compact	146	5.1	D	14
1516.3 + 3641	compact	112	1.6	ED	15
1516.6 + 3559	medium compact	153	3.3	VD	16
1518.6 + 3327	medium compact	116	5.6	MD	28
1520.8 + 3207	medium compact	275	7.5	MD	1
1522.4 + 3527	compact	142	2.1	ED	25
1523.0 + 3716	medium compact	102	3.5	D	24
1528.1 + 3525	compact	86	2.0	ED	27
1529.2 + 3425	compact	56	0.8	ED	2
1530.1 + 3231	medium compact	90	1.0	ED	3
1531.0 + 3230	compact	80	1.1	ED	4
1531.2 + 3446	medium compact	88	2.7	VD	26
1532.1 + 3708	compact	100	2.1	ED	20
1533.6 + 3732	compact	77	1.6	ED	19
1534.4 + 3749	compact	170	2.5	VD	18
1534.7 + 3753	medium compact	126	6.7	D	17
1534.8 + 3300	medium compact	130	4.4	D	7
1537.0 + 3345	medium compact	60	1.7	VD	23
1537.6 + 3630	compact	78	1.2	ED	21
1537.7 + 3436	compact	270	1.9	ED	22
1537.9 + 3224	medium compact	110	1.4	ED	6
1539.4 + 3517	compact	460	13.4	MD	10
1540.0 + 3653	compact	51	1.1	ED	8
1542.1 + 3620	compact	78	1.4	VD	9

Average number of galaxies per cluster = 128.8

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
15 16.2	+ 38 24		15.4		
15 20.0	+ 33 20	4542*	15.1		double nebula
15 21.8	+ 37 59		15.7		double system
15 22.1	+ 38 18		15.3		
15 23.3	+ 38 08		15.4		
15 26.0	+ 35 09		15.7		
15 27.3	+ 33 00	4549*	15.5		
15 29.0	+ 36 58		15.6		
15 31.1	+ 36 38		15.5		
15 32.0	+ 32 59		15.4		
15 35.4	+ 33 50		15.5		
15 36.3	+ 33 20		15.2		
15 36.8	+ 37 07		14.7		
15 38.5	+ 35 05		15.7		
15 38.9	+ 32 57		15.3		
15 39.0	+ 32 50		15.6		



FIELD No. 195

15^h56^m + 35°30'

Survey Plate No. 71

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
21319	15 49 20.8	+ 35 48 41	4.77
21385	15 53 02.2	+ 34 30 27	6.95
21402	15 53 58.4	+ 38 05 25	5.47
21527	15 59 07.8	+ 33 27 12	5.43
21590	16 01 29.0	+ 36 46 06	5.85
21792	16 09 45.0	+ 33 28 12	6.41

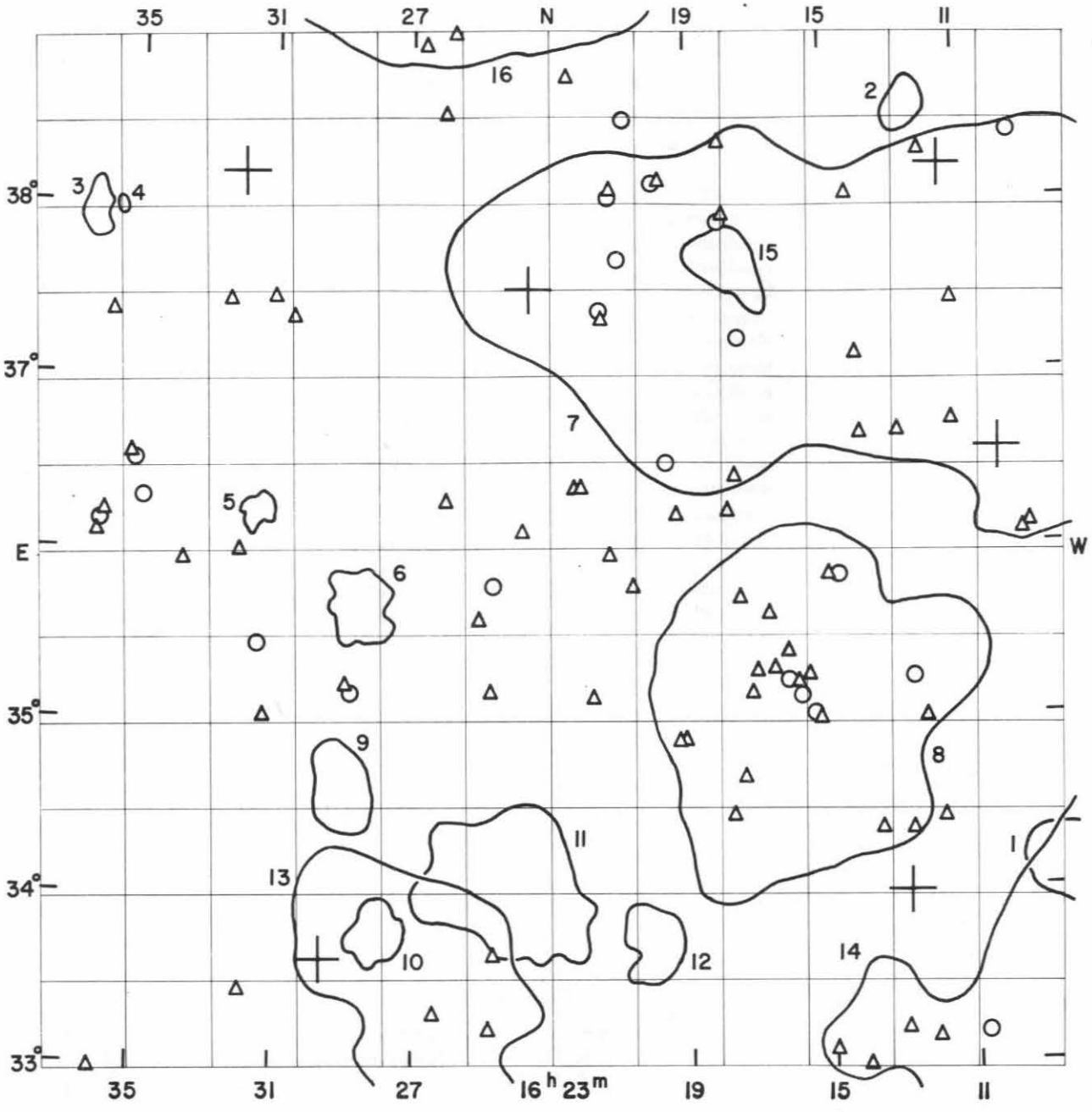
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1539.4 + 3517	compact	460	13.4	MD	14
1542.1 + 3620	compact	78	1.4	VD	15
1544.3 + 3412	medium compact	92	2.8	VD	22
1545.9 + 3325	medium compact	224	4.0	D	21
1546.0 + 3646	compact	73	1.6	ED	12
1546.4 + 3610	compact	157	2.6	ED	10
1547.5 + 3405	compact	79	1.6	VD	20
1548.1 + 3735	medium compact	101	5.9	D	11
1548.6 + 3637	medium compact	153	3.5	ED	9
1552.5 + 3435	medium compact	285	12.3	Near	17
1552.6 + 3230	compact	75	0.9	ED	13
1553.4 + 3614	medium compact	280	6.7	VD	7
1555.0 + 3235	medium compact	83	0.9	ED	25
1555.0 + 3310	medium compact	123	2.8	VD	18
1555.6 + 3735	medium compact	92	3.2	D	6
1555.7 + 3535	compact	99	1.5	VD	8
1556.7 + 3257	medium compact	53	1.5	ED	19
1559.0 + 3819	medium compact	99	3.7	D	5
1559.2 + 3234	medium compact	111	1.1	ED	24
1600.8 + 3804	medium compact	190	7.7	MD	3
1604.6 + 3807	compact	73	1.5	ED	4
1606.4 + 3404	medium compact	133	5.2	MD	16
1608.5 + 3044	medium compact	1775	31.8	Near	23
1611.6 + 3717	open	351	18.4	Near	1
1615.8 + 3505	medium compact	172	10.6	Near	2

Average number of galaxies per cluster = 216.4

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
15 44.6	+ 33 22		15.5		diffuse
15 45.9	+ 37 21		15.2		very compact
15 57.3	+ 35 10		14.9		
15 57.9	+ 37 10		15.1		
15 59.2	+ 36 44		15.6		
16 00.1	+ 36 50		15.5		
16 00.5	+ 36 15		15.3		compact
16 00.8	+ 37 29	6038	14.4		
16 01.0	+ 33 16		15.7		extremely faint jets
16 02.7	+ 37 17		15.7		extremely faint jets
16 02.9	+ 34 45		15.4		double system
16 03.1	+ 34 44		15.3		
16 03.6	+ 32 47		15.6		
16 04.3	+ 36 07		15.7		
16 05.8	+ 36 37		15.7		
16 06.5	+ 36 13		15.6		
16 07.2	+ 35 55		15.4		
16 07.2	+ 36 45		15.6		
16 07.5	+ 33 08		15.7		
16 09.1	+ 36 07		15.4		
16 09.3	+ 38 23		15.0		
16 09.4	+ 36 05		15.3		compact, jet



FIELD No. 196

16^h23^m + 36°00'

Survey Plate No. 1093

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
21800	16 09 58.3	+ 36 33 10	5.68
21833	16 11 26.0	+ 38 11 53	7.03
21863	16 12 48.3	+ 33 59 02	5.36
22108	16 23 37.2	+ 37 30 24	5.53
22235	16 29 37.9	+ 33 37 10	6.74
22285	16 31 56.9	+ 38 11 35	6.59

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1606.4 + 3404	medium compact	133	5.2	MD	1
1608.5 + 3044	medium compact	1775	31.8	Near	14
1611.6 + 3717	open	351	18.4	Near	7
1612.6 + 3832	compact	87	1.3	VD	2
1615.8 + 3505	medium compact	172	10.6	Near	8
1617.8 + 3739	medium compact	80	2.2	D	15
1620.1 + 3343	medium compact	53	2.1	VD	12
1624.2 + 3403	medium compact	210	4.9	VD	11
1625.5 + 4006	medium compact	686	16.3	Near	16
1626.6 + 3326	open	75	7.8	Near	13
1628.0 + 3346	compact	52	1.8	ED	10
1628.5 + 3540	compact	126	2.2	ED	6
1629.0 + 3436	medium compact	70	2.4	VD	9
1631.5 + 3613	compact	58	1.0	ED	5
1635.7 + 3800	compact	48	0.3	ED	4
1636.4 + 3758	medium compact	56	1.3	VD	3

Average number of galaxies per cluster = 252.0

GALAXIES

Position α 1950 δ	NGC IC*	m_p	V_s km/sec	Remarks
h m o ′				
16 09.1 +36 07		15.4		
16 09.3 +38 23		15.0		
16 09.4 +36 05		15.3		compact, jet
16 10.7 +33 10	6089	15.0		double system, bridge + jet
16 11.2 +37 25		15.5		
16 11.3 +36 43		15.7		diffuse spiral
16 11.7 +34 25		15.7		
16 12.0 +38 17		15.2		compact
16 12.1 +33 08		15.7		
16 12.2 +35 00		15.3		compact
16 12.5 +35 14	6097	14.9		
16 12.7 +34 21		15.2		compact
16 12.9 +36 40		15.7		compact
16 13.0 +33 11		15.7		compact, faint jet
16 13.5 +34 21		15.6		very compact
16 13.9 +36 39	1208*	15.3		
16 14.0 +37 07		15.5		
16 14.1 +32 58		15.6		
16 14.2 +38 02		15.5		
16 14.7 +35 50	6104	14.1		
16 15.0 +33 03		15.7		
16 15.0 +35 50		15.4		
16 15.2 +35 00	6105	15.3		
16 15.4 +35 01	6107	14.7		compact
16 15.5 +35 15	6108	15.4		
16 15.7 +35 07	6109	14.9		compact
16 15.8 +35 13	6110	15.6		
16 16.1 +35 14	6112	14.8		compact
16 16.1 +35 23		15.7		
16 16.5 +35 18	6114	15.3		
16 16.7 +35 37		15.2		
16 17.0 +35 17	6116	15.3		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
16 17.2	+ 35 10		15.7		
16 17.4	+ 34 40		15.4		
16 17.5	+ 35 42		15.7		
16 17.5	+ 37 13	6117	14.7		
16 17.6	+ 36 24		15.6		
16 17.8	+ 34 27		15.5		compact
16 17.8	+ 36 12		15.3		
16 17.9	+ 37 56	6119	15.4		
16 18.0	+ 37 54	6120	14.3		
16 18.0	+ 38 21		15.4		
16 19.1	+ 34 53		15.6		very compact
16 19.3	+ 36 10		15.4		
16 19.3	+ 34 53		15.4		compact
16 19.6	+ 36 30	6126	14.5		
16 19.8	+ 38 07		15.6		
16 20.0	+ 38 06	6129	14.7		
16 20.6	+ 35 46		15.3		
16 20.9	+ 38 29		14.9		very compact
16 21.0	+ 37 40		15.0		
16 21.2	+ 38 04		15.5		
16 21.3	+ 38 02	6137	14.1		
16 21.3	+ 35 57		15.3		
16 21.5	+ 37 19		15.6		
16 21.6	+ 37 22	6142	14.8		
16 21.8	+ 35 07		15.1		compact
16 22.1	+ 36 20		15.2		
16 22.3	+ 36 20		15.7		
16 22.5	+ 38 43		15.6		
16 23.8	+ 36 05		15.7		
16 24.6	+ 35 47		15.0		
16 24.7	+ 33 38		15.7		very compact
16 24.7	+ 35 10		15.7		
16 24.8	+ 33 12		15.6		
16 25.1	+ 35 35		15.6		
16 25.8	+ 38 58		15.5		
16 26.0	+ 36 15		15.5		
16 26.0	+ 38 31		15.4		
16 26.4	+ 33 17		15.6		
16 26.6	+ 38 55		15.1		compact
16 28.8	+ 35 10	6177	14.8		
16 28.9	+ 35 13	6179	15.7		extremely compact
16 30.5	+ 37 20		15.7		
16 31.0	+ 37 27		15.2		
16 31.3	+ 35 01		15.5		
16 31.4	+ 35 26	6185	14.5		
16 31.9	+ 33 25		15.1		
16 32.0	+ 35 59		15.7		
16 32.3	+ 37 26		15.6		
16 33.6	+ 35 56		15.5		
16 34.8	+ 36 17	6194	14.6		
16 35.1	+ 36 31		15.0		
16 35.2	+ 36 33		15.5		
16 35.8	+ 37 22		15.4		
16 36.0	+ 32 58		15.4		compact
16 36.0	+ 36 13	4614*	15.3		
16 36.1	+ 36 10	4615*	14.2		
16 36.2	+ 36 05	4616*	15.4		

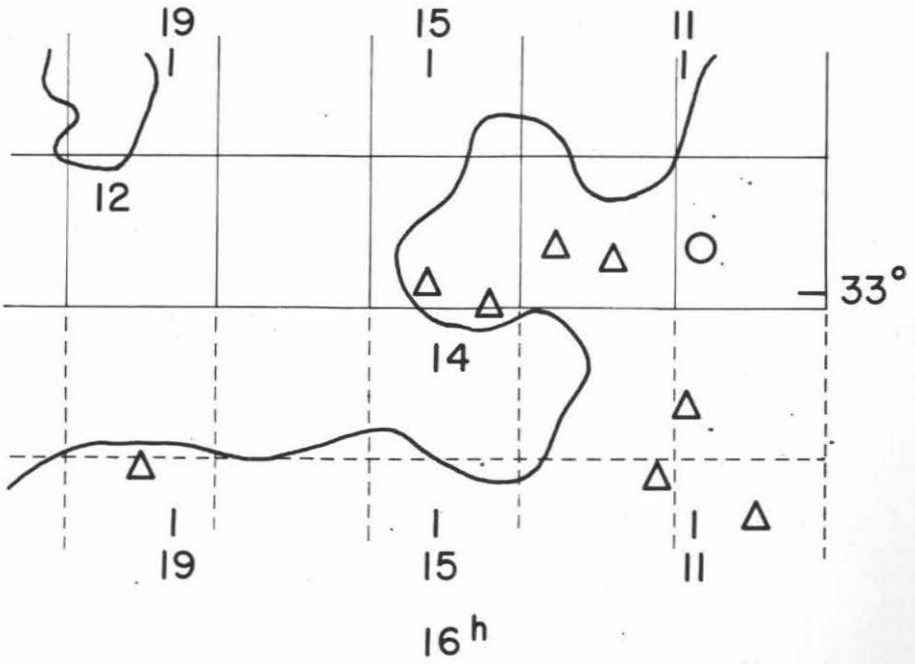
An area of almost 1 square degree at the S.W. corner of this plate is not covered by any of the adjacent fields. It is outlined by

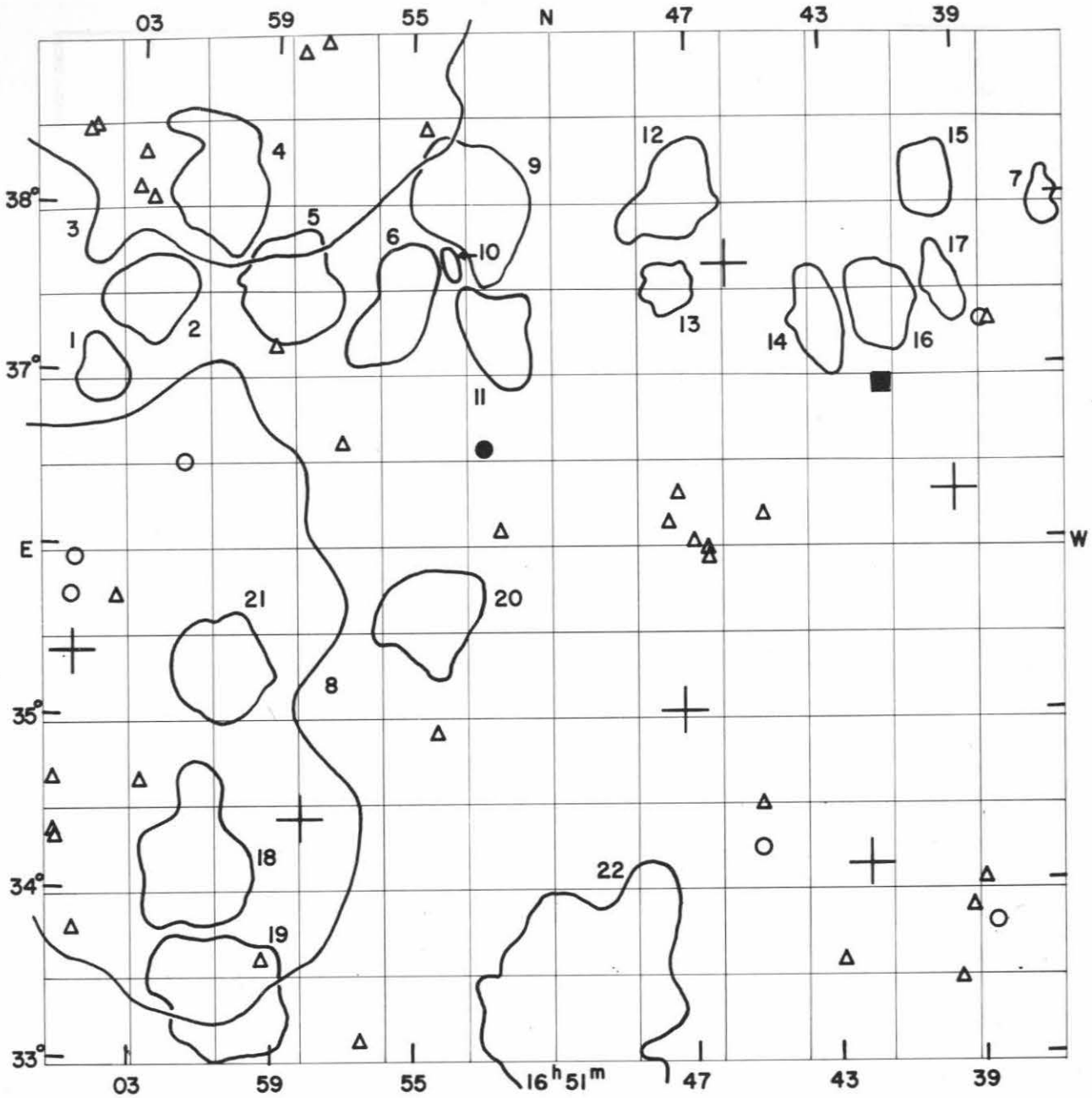
$$16^h10^m < \alpha < 16^h18^m, \qquad 32^\circ30' < \delta < 33^\circ00'$$

and plotted on the following special map, together with some of its surroundings.

Galaxies on special map

Position α 1950 h m	Position δ 1950 ° ′	NGC IC*	m_p	V_s km/sec	Remarks
16 09.9	+ 32 15		15.6		double nebula, collision
16 10.7	+ 33 10	6089	15.0		double system, bridge + jet
16 11.0	+ 32 38		15.3		
16 11.4	+ 32 25		15.7		
16 12.1	+ 33 08		15.7		
16 13.0	+ 33 11		15.7		compact, faint jet
16 14.1	+ 32 58		15.6		
16 15.0	+ 33 03		15.7		
16 19.3	+ 32 28		15.5		





FIELD No. 197

16^h51^m $+36^o00'$

Survey Plate No. 1069

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
22462	16 39 16.7	+ 36 17 45	7.19
22522	16 42 00.9	+ 34 07 47	5.90
22618	16 45 52.8	+ 37 38 51	6.97
22646	16 47 15.0	+ 35 02 31	6.77
22933	16 58 20.4	+ 34 24 41	7.05
23106	17 04 54.0	+ 35 23 19	7.19

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1636.4 + 3758	medium compact	56	1.3	VD	7
1639.5 + 3729	medium compact	61	1.6	VD	17
1639.9 + 3805	compact	98	2.0	VD	15
1641.3 + 3723	compact	87	2.5	VD	16
1643.1 + 3717	medium compact	74	2.3	VD	14
1647.4 + 3801	compact	57	2.8	VD	12
1647.6 + 3730	compact	72	1.6	VD	13
1649.9 + 3320	open	146	6.9	Near	22
1652.6 + 3714	medium compact	58	2.6	D	11
1653.3 + 3800	medium compact	87	3.8	MD	9
1654.0 + 3738	compact	56	0.7	ED	10
1654.6 + 3535	medium compact	92	3.2	VD	20
1655.5 + 3723	medium compact	109	3.2	D	6
1658.6 + 3730	medium compact	103	3.4	D	5
1700.5 + 3322	compact	123	4.3	MD	19
1700.6 + 3516	medium compact	118	3.2	D	21
1700.7 + 3806	medium compact	96	3.6	VD	4
1701.3 + 3406	compact	246	4.0	D	18
1702.8 + 3725	open	64	2.7	VD	2
1702.9 + 3510	medium compact	273	16.6	Near	8
1704.1 + 3700	compact	64	1.8	ED	1
1707.6 + 4045	open	1021	29.8	Near	3

Average number of galaxies per cluster = 143.7

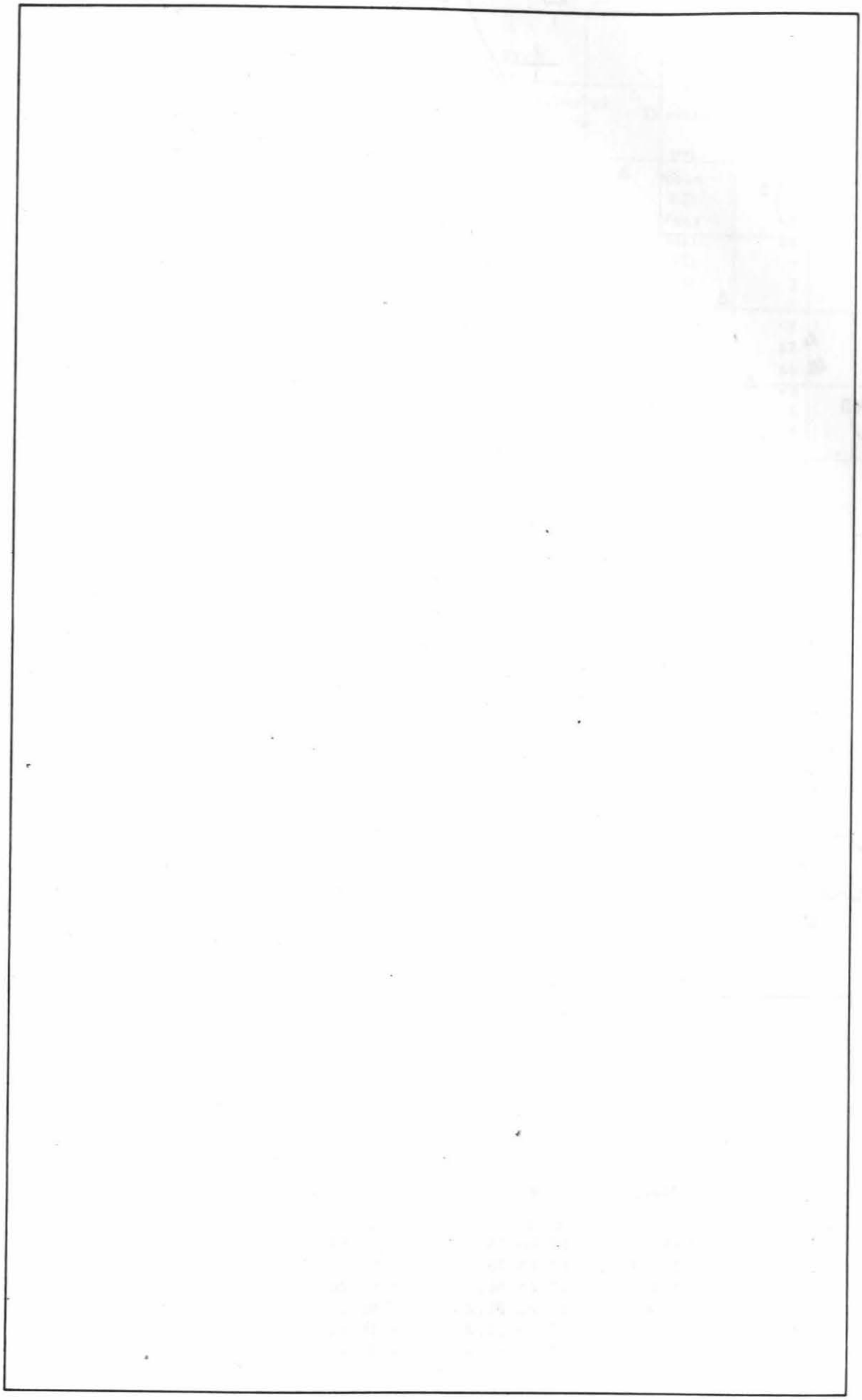
GALAXIES

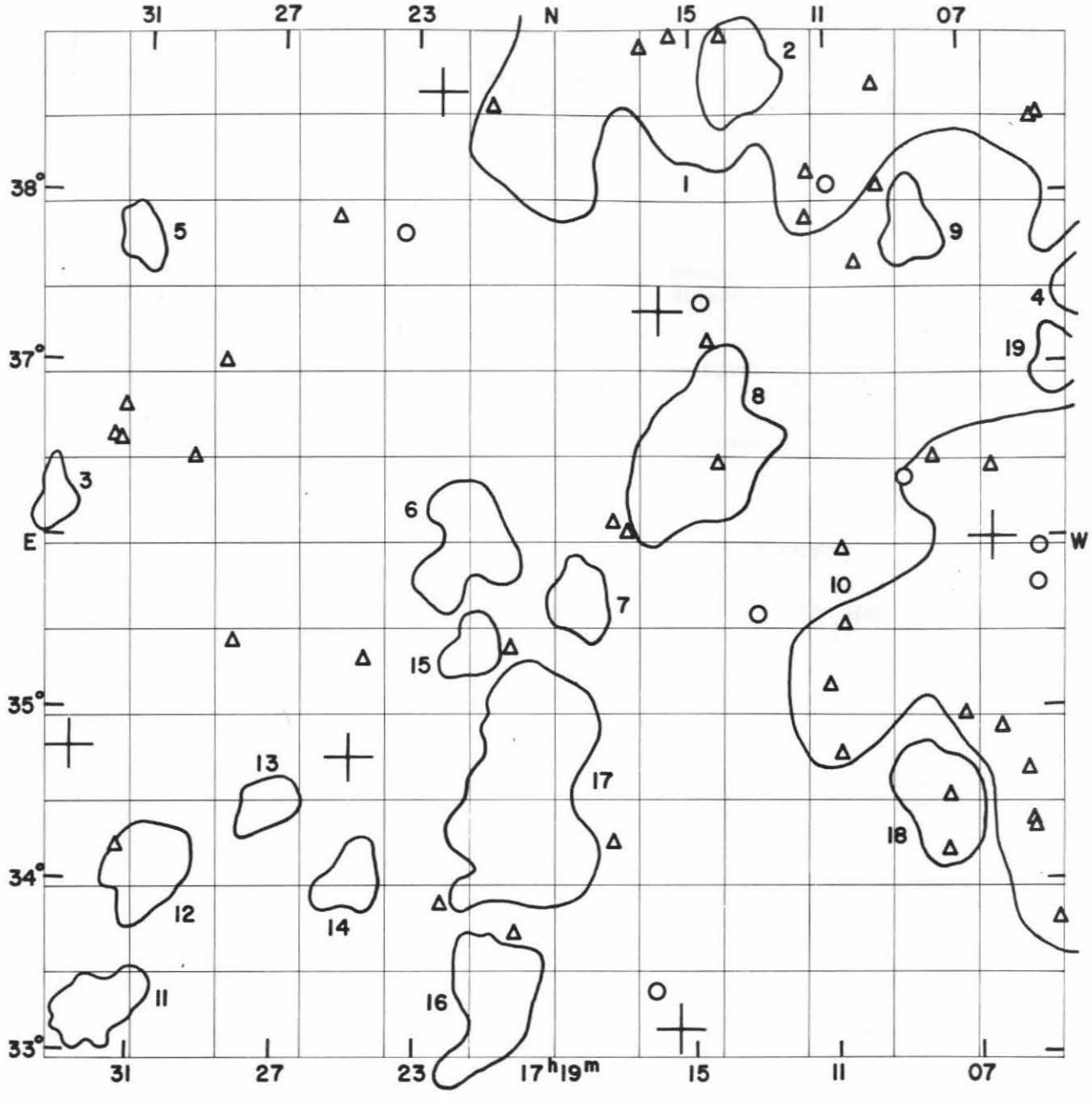
Position α 1950 h m	Position δ ° ′	NGC IC*	m_p	V_s km/sec	Remarks
16 38.1	+ 37 16		15.2		
16 38.3	+ 37 17		14.8		
16 38.5	+ 33 46		14.9		
16 38.8	+ 34 01		15.7		compact
16 39.1	+ 33 52		15.4		
16 39.5	+ 33 27		15.2		
16 41.3	+ 36 55	6207	11.9	+ 869	m_H = 12.3 Sb
16 42.8	+ 33 34		15.7		compact
16 44.9	+ 36 10		15.4		
16 45.0	+ 34 30		15.1		
16 45.1	+ 34 15		14.7		
16 46.5	+ 35 55		15.3		
16 46.5	+ 35 59		15.3		compact
16 46.9	+ 36 01		15.5		
16 47.3	+ 36 18		15.2		
16 47.6	+ 36 08		15.7		
16 52.5	+ 36 05		15.7		
16 53.0	+ 36 35	6255	13.8		
16 54.3	+ 34 55		15.6		
16 54.7	+ 38 26		15.6		
16 56.6	+ 33 07		15.6		
16 57.2	+ 36 35		15.4		
16 57.6	+ 38 56		15.7		
16 58.3	+ 38 53		15.4		
16 59.1	+ 37 10		15.5		compact
16 59.3	+ 33 35	4638*	15.7		compact

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
17 01.8	+ 36 29		14.5		
17 02.8	+ 38 01		15.7		
17 02.9	+ 34 38		15.5		very diffuse spiral
17 03.0	+ 38 17		15.5		
17 03.2	+ 38 05		15.3		
17 03.7	+ 35 42		15.6		compact
17 04.6	+ 38 27		15.5		diffuse spiral
17 04.7	+ 33 45		15.5		
17 04.8	+ 38 25		15.1		
17 04.9	+ 35 56		14.7		compact
17 05.0	+ 35 43		14.8		
17 05.2	+ 34 18		15.7		
17 05.3	+ 34 20		15.4		compact
17 05.4	+ 34 38		15.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
6207	11.8	Sc	12.13	Sc	12.0	Sc	-	-





FIELD No. 198

17^h19^m $+36^o00'$

Survey Plate No. 1132

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
23132	17 06 15.6	+ 35 59 56	5.38
23359	17 15 28.6	+ 33 09 10	Var.
23374	17 15 56.7	+ 37 20 34	4.80
23560	17 22 21.2	+ 38 37 36	6.42
23647	17 24 58.2	+ 34 44 11	5.91
23841	17 32 57.8	+ 34 46 58	6.82

CLUSTERS OF GALAXIES

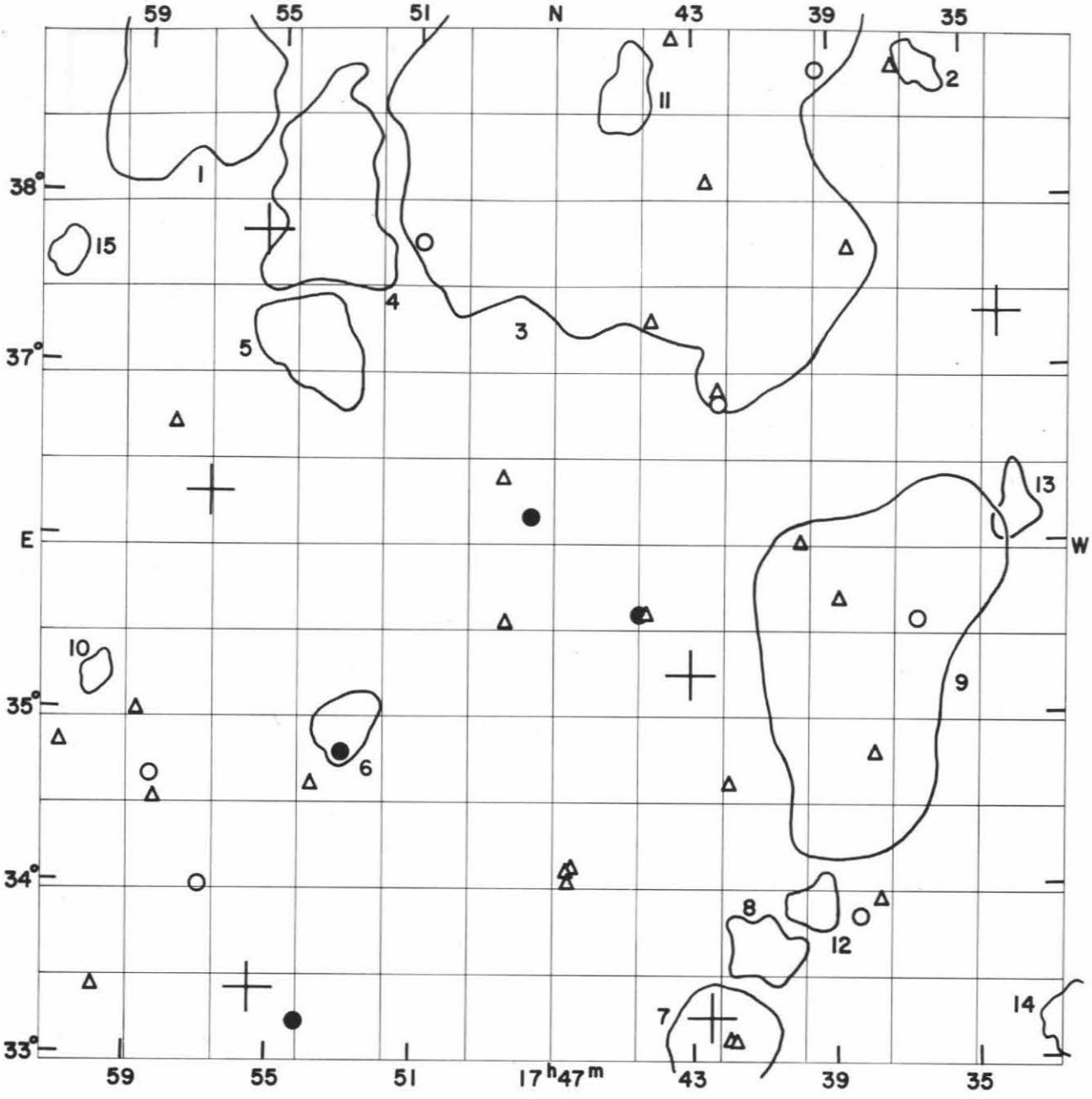
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1702.8 + 3725	open	64	2.7	VD	4
1702.9 + 3510	medium compact	273	16.6	Near	10
1704.1 + 3700	compact	64	1.8	ED	19
1707.6 + 4045	open	1021	29.8	Near	1
1707.9 + 3426	compact	110	3.3	MD	18
1708.4 + 3749	compact	55	2.3	VD	9
1713.6 + 3845	medium compact	103	2.9	MD	2
1714.7 + 3630	medium compact	101	4.9	MD	8
1718.3 + 3538	medium compact	88	2.2	ED	7
1719.8 + 3431	open	107	5.8	D	17
1720.4 + 3320	medium compact	87	3.6	D	16
1721.4 + 3523	compact	77	1.9	ED	15
1721.5 + 3600	medium compact	80	3.2	VD	6
1724.9 + 3401	compact	82	2.1	ED	14
1727.2 + 3427	open	57	1.9	ED	13
1730.6 + 3405	medium compact	79	2.9	VD	12
1731.1 + 3745	medium compact	61	1.6	VD	5
1731.8 + 3315	medium compact	93	2.3	VD	11
1733.6 + 3611	medium compact	60	1.6	ED	3

Average number of galaxies per cluster = 140.1

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
17 04.6	+ 38 27		15.5		diffuse spiral
17 04.7	+ 33 45		15.5		
17 04.8	+ 38 25		15.1		
17 04.9	+ 35 56		14.7		compact
17 05.0	+ 35 43		14.8		
17 05.2	+ 34 18		15.7		
17 05.3	+ 34 20		15.4		compact
17 05.4	+ 34 38		15.7		
17 06.2	+ 34 53		15.2		
17 06.3	+ 36 25		15.7		
17 07.2	+ 34 58		15.7		compact
17 07.7	+ 34 29		15.3		
17 07.8	+ 34 10		15.4		
17 08.0	+ 36 28		15.4		
17 08.8	+ 36 21	1244*	14.7		
17 09.4	+ 38 04		15.6		
17 09.5	+ 38 39		15.7		
17 10.1	+ 37 37		15.2		
17 10.6	+ 35 30		15.3		
17 10.7	+ 35 57		15.1		
17 10.8	+ 34 45		15.5		
17 10.9	+ 38 05	1245*	15.0		
17 11.0	+ 35 09		15.4		
17 11.5	+ 38 08		15.6		
17 11.6	+ 37 53		15.4		
17 13.1	+ 35 34	1249*	14.9		
17 14.0	+ 38 56		15.6		compact
17 14.2	+ 36 26		15.6		
17 14.5	+ 37 10		15.7		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
17 14.7	+ 37 23		14.9		
17 15.6	+ 38 57		15.5		
17 16.1	+ 33 23		14.6		
17 16.5	+ 38 53		15.7		very compact
17 16.9	+ 36 03		15.5		
17 17.3	+ 34 15		15.3		double system, connected
17 17.3	+ 36 06	6349	15.1		
17 20.2	+ 33 43		15.6		
17 20.3	+ 35 23		15.6		diffuse spiral
17 20.8	+ 38 32		15.5		
17 22.3	+ 33 53		15.2		
17 23.4	+ 37 48	6367	15.0		
17 24.6	+ 35 18		15.2		
17 25.3	+ 37 53		15.4		
17 28.3	+ 35 24		15.3		
17 28.7	+ 37 02		15.6		
17 29.5	+ 36 28		15.7		compact
17 31.5	+ 34 12		15.5		very compact
17 31.6	+ 36 46		15.5		quadruple system
17 31.7	+ 36 34		15.6		compact
17 31.9	+ 36 35		15.7		compact



FIELD No. 199

17^h47^m + 36°00'

Survey Plate No. 277

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
23863	17 33 59.2	+ 37 19 54	6.15
24082	17 42 27.0	+ 33 14 45	7.04
24098	17 43 03.2	+ 35 14 12	6.84
24433	17 55 27.2	+ 37 48 25	6.96
24437	17 55 34.6	+ 33 24 19	6.78
24488	17 56 57.6	+ 36 17 27	5.98

CLUSTERS OF GALAXIES

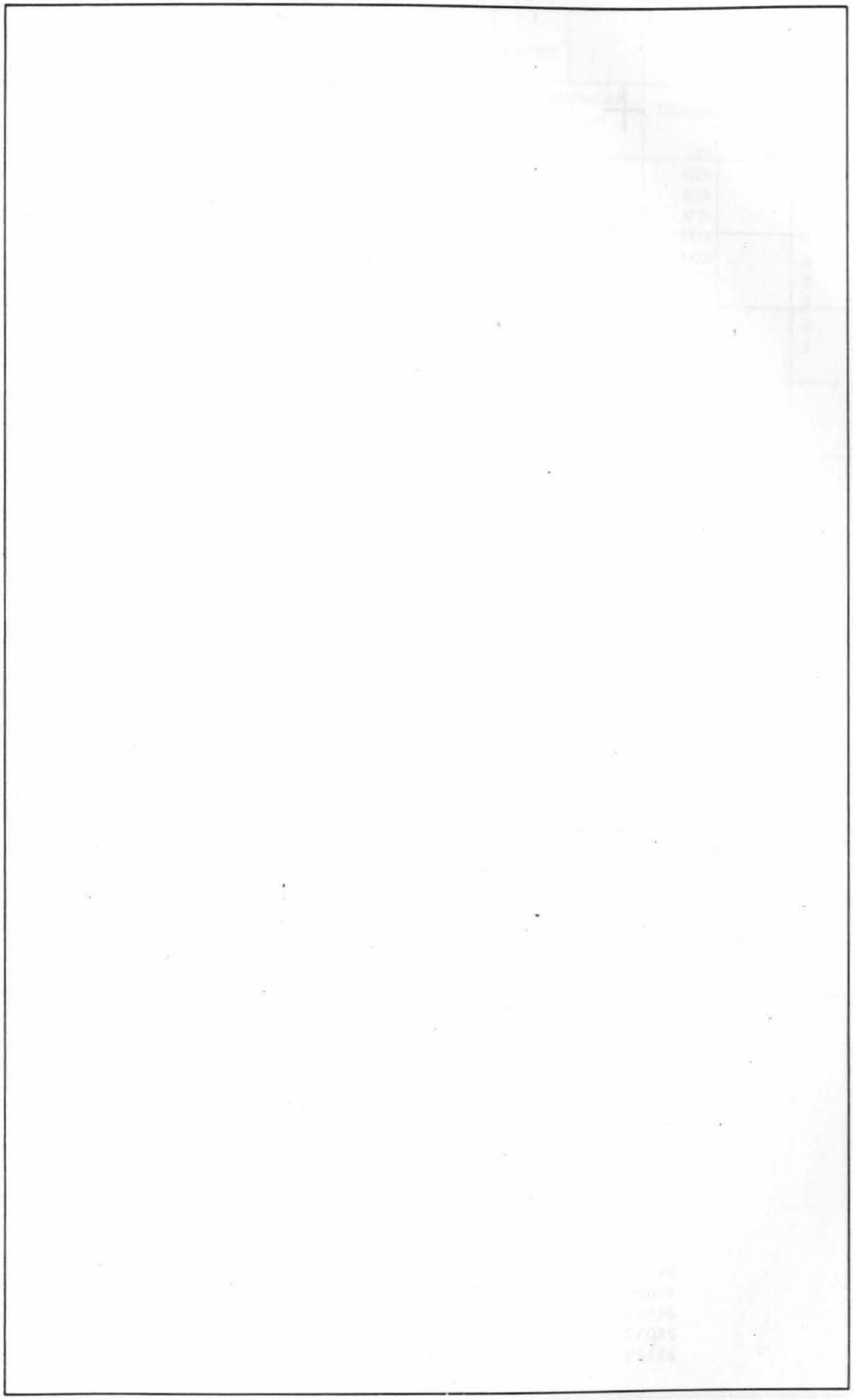
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1731.8 + 3315	medium compact	93	2.3	VD	14
1733.6 + 3611	medium compact	60	1.6	ED	13
1736.3 + 3846	compact	57	1.3	ED	2
1738.0 + 3516	medium compact	151	9.2	Near	9
1739.5 + 3354	medium compact	53	1.6	ED	12
1741.0 + 3337	medium compact	72	2.2	D	8
1742.1 + 3306	medium compact	86	3.4	MD	7
1744.5 + 3846	open	205	16.8	Near	3
1744.9 + 3836	medium compact	69	2.1	D	11
1753.0 + 3456	medium compact	53	2.0	VD	6
1753.6 + 3759	medium compact	98	5.0	MD	4
1754.0 + 3707	medium compact	75	3.3	D	5
1757.8 + 3842	open	97	6.1	D	1
1800.1 + 3512	compact	47	1.1	ED	10
1801.4 + 3739	compact	57	1.2	ED	15

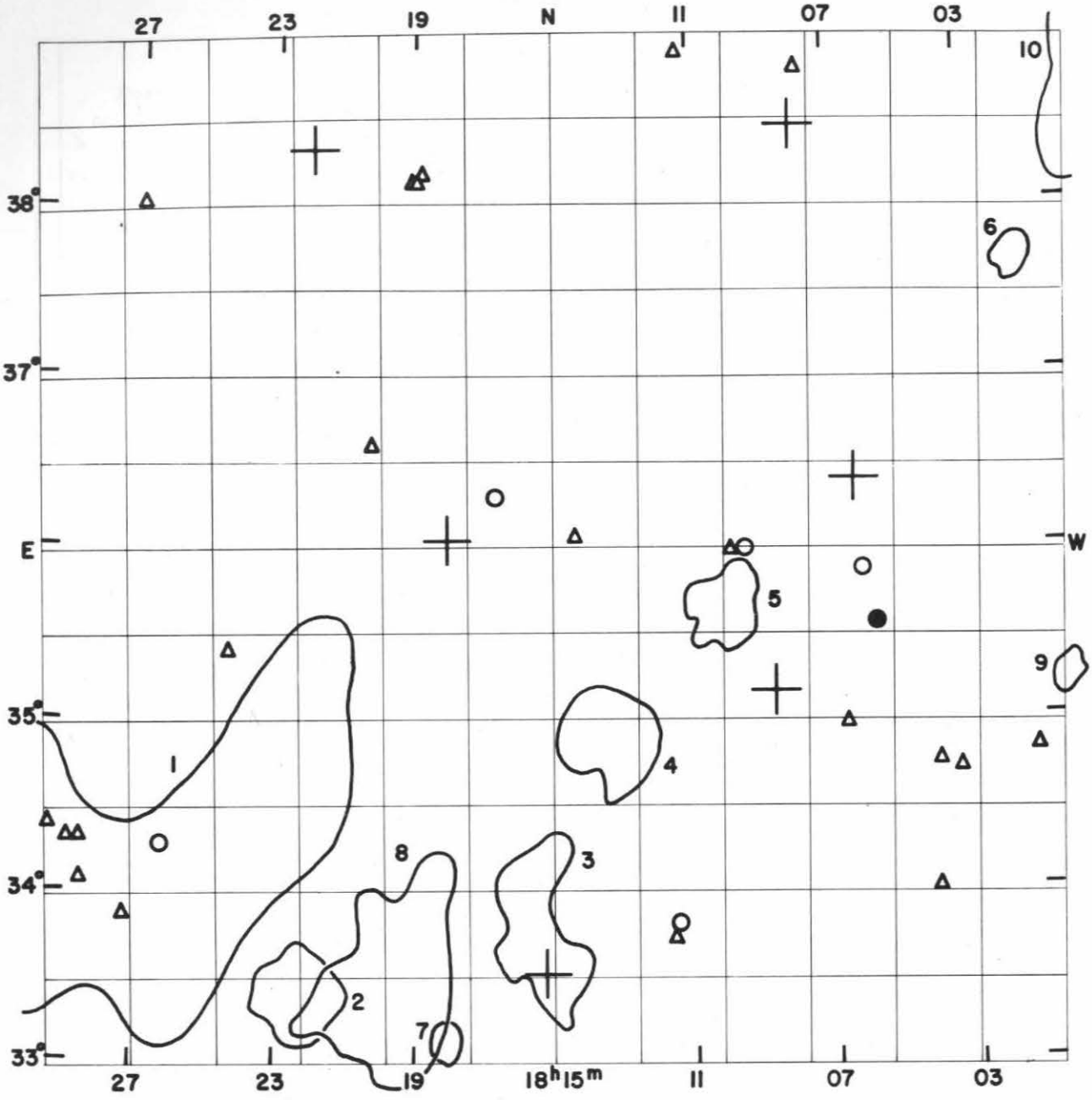
Average number of galaxies per cluster = 84.9

GALAXIES

Position α 1950 h m	Position δ 1950 ° ′	NGC IC*	m_p	V_s km/sec	Remarks
17 36.5	+ 35 33		14.9		
17 37.0	+ 38 45		15.4		
17 37.7	+ 33 55		15.7		very compact
17 37.8	+ 34 46		15.6		compact
17 38.2	+ 33 49		14.9		double system
17 38.4	+ 37 42		15.7		
17 38.8	+ 35 40		15.4		double system in halo
17 39.3	+ 38 44		15.0		
17 39.9	+ 36 00		15.5		
17 41.8	+ 33 05		15.7		compact
17 41.9	+ 33 06		15.7		
17 42.0	+ 34 36		15.6		compact
17 42.2	+ 36 48	6433	14.1		
17 42.2	+ 36 52		15.2		
17 42.6	+ 38 05		15.5		very compact
17 43.6	+ 38 55		15.6		
17 44.2	+ 37 17		15.7		very compact
17 44.3	+ 35 35	6446	15.5		
17 44.5	+ 35 35	6447	13.8		
17 46.4	+ 34 06		15.5		
17 46.5	+ 34 01		15.6		
17 46.6	+ 34 05		15.5		
17 47.7	+ 36 09		14.0		
17 48.4	+ 35 32		15.4		
17 48.5	+ 36 22		15.6		
17 50.9	+ 37 45		14.8		
17 53.0	+ 34 47		13.9		
17 53.9	+ 34 35		15.7		
17 54.2	+ 33 12	6504	13.4		
17 57.0	+ 34 00		14.8		
17 58.0	+ 36 40		15.3		
17 58.4	+ 34 30		15.6		
17 58.5	+ 34 38		14.4		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
17 58.9	+35 00		15.7		
17 59.9	+33 23		15.7		
18 01.1	+34 48		15.7		





FIELD No. 200

18^h15^m + 36°00'

Survey Plate No. 197

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
24735	18 06 18.1	+ 36 23 42	5.67
24778	18 07 58.0	+ 38 27 12	6.40
24800	18 08 40.6	+ 35 09 38	6.99
24968	18 15 16.8	+ 33 30 55	7.07
25032	18 18 06.4	+ 36 02 27	4.34
25129	18 22 02.9	+ 38 19 01	6.83

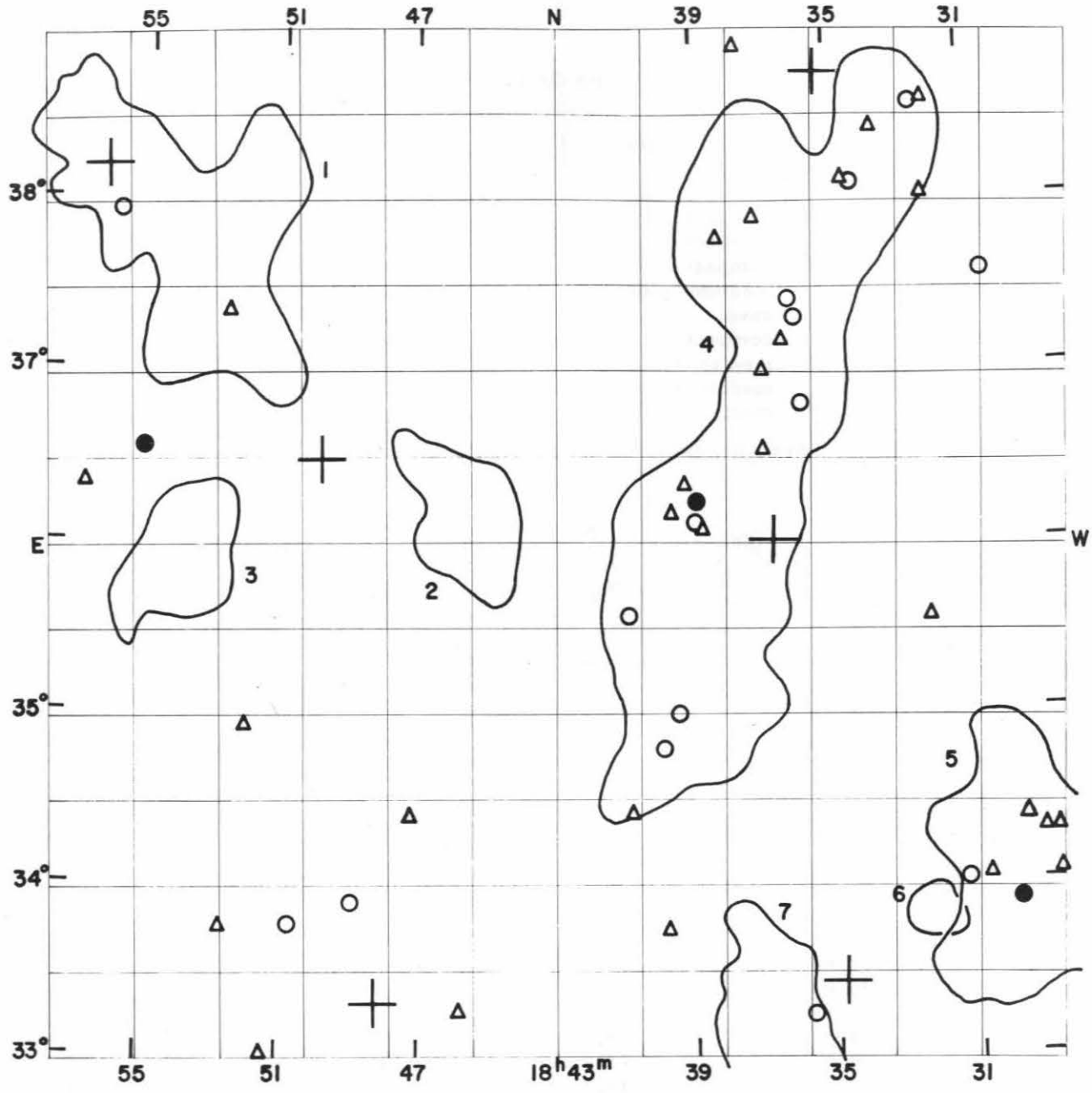
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1757.8 + 3842	open	97	6.1	D	10
1800.1 + 3512	compact	47	1.1	ED	9
1801.4 + 3739	compact	57	1.2	ED	6
1810.0 + 3538	compact	62	2.2	VD	5
1813.3 + 3452	medium compact	92	3.1	MD	4
1815.4 + 3346	open	57	3.7	MD	3
1818.0 + 3306	compact	41	1.1	ED	7
1819.4 + 3325	medium compact	110	5.4	MD	8
1822.2 + 3322	medium compact	79	2.8	D	2
1826.4 + 3410	medium compact	163	10.8	Near	1

Average number of galaxies per cluster = 80.5

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
18 01.1	+ 34 48		15.7		
18 03.3	+ 34 42		15.5		
18 03.9	+ 34 45		15.1		
18 04.0	+ 34 00		15.3		
18 05.7	+ 35 33		13.9		
18 06.0	+ 35 52		14.8		
18 06.6	+ 34 58		15.7		
18 07.8	+ 38 46		15.6		
18 09.5	+ 35 59	1279*	14.5		
18 09.8	+ 35 58	1281*	15.5		double system
18 11.3	+ 38 53		15.7		
18 11.4	+ 33 48		14.7		
18 11.6	+ 33 43		15.7		
18 14.4	+ 36 03	6612	15.6		compact
18 16.7	+ 36 17		14.6		
18 18.8	+ 38 09		15.6		
18 19.0	+ 38 07		15.2		double system, connected
18 19.1	+ 38 06		15.5		
18 20.3	+ 36 35		15.4		
18 24.4	+ 35 23		15.6		
18 26.3	+ 34 16	6640	14.2		
18 27.0	+ 38 00		15.7		
18 27.3	+ 33 50		15.6		
18 28.6	+ 34 03		15.5		
18 28.6	+ 34 18		15.3		
18 29.0	+ 34 18		15.7		
18 29.5	+ 34 22		15.4		



FIELD No. 201

18^h43^m + 36°00'

Survey Plate No. 148

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
25443	18 34 47.1	+ 33 25 33	5.46
25466	18 35 14.7	+ 38 44 09	0.14
25507	18 36 39.7	+ 36 00 30	7.5
25847	18 48 14.0	+ 33 18 12	Var.
25889	18 49 51.0	+ 36 28 39	6.01
26059	18 56 19.2	+ 38 11 51	5.75

CLUSTERS OF GALAXIES

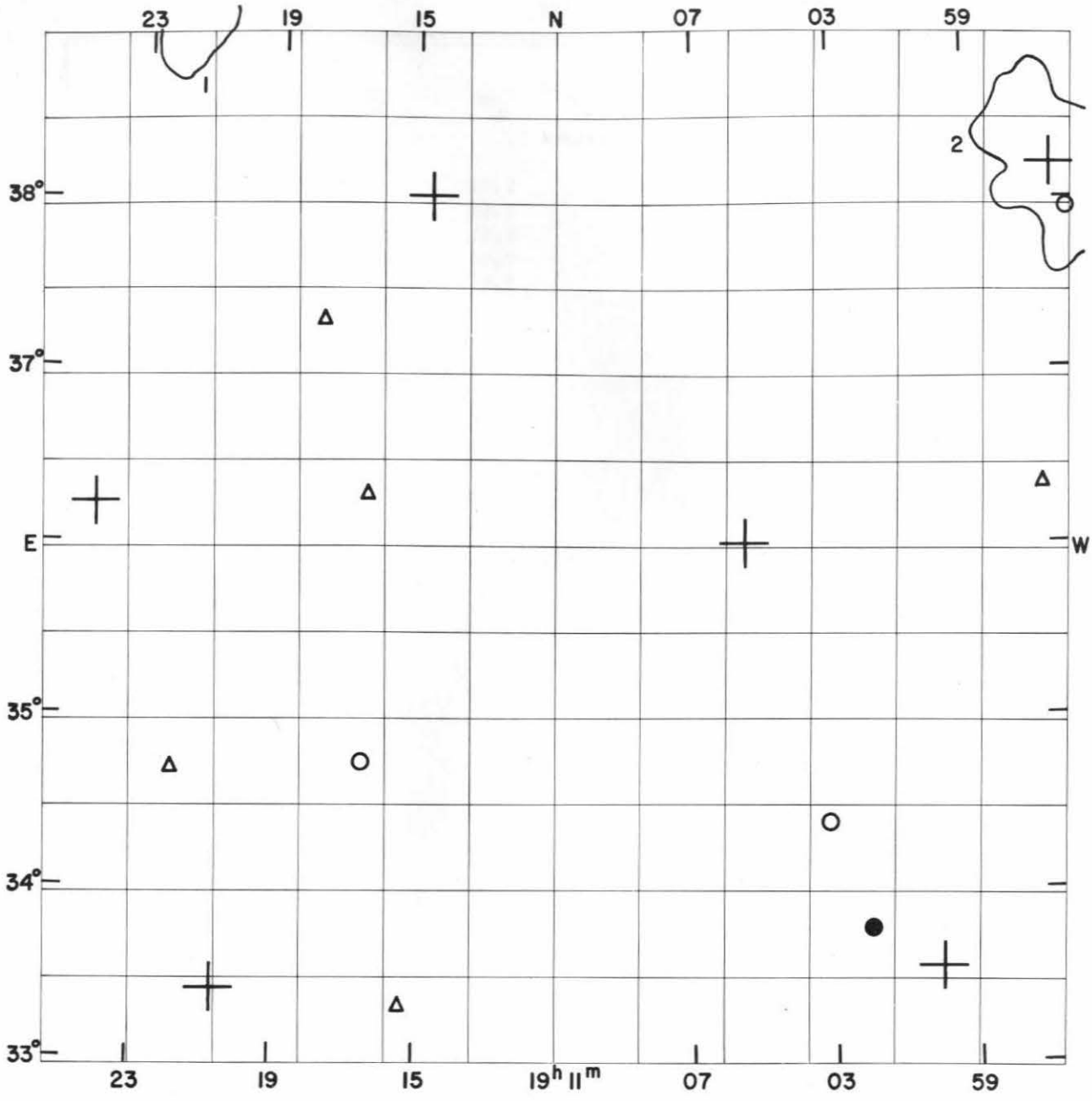
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1826.4 + 3410	medium compact	163	10.8	Near	5
1832.2 + 3348	medium compact	61	1.7	MD	6
1836.8 + 3306	medium compact	77	5.2	Near	7
1837.1 + 3633	open	165	12.5	Near	4
1845.6 + 3606	medium compact	68	4.2	MD	2
1853.5 + 3744	medium compact	147	8.0	Near	1
1854.0 + 3552	open	75	4.2	MD	3

Average number of galaxies per cluster = 108.0

GALAXIES

Position α 1950 h m	Position δ 1950 ° ′	NGC IC*	m_p	V_s km/sec	Remarks
18 28.6	+ 34 03		15.5		
18 28.6	+ 34 18		15.3		
18 29.0	+ 34 18		15.7		
18 29.5	+ 34 22		15.4		
18 29.8	+ 33 53		13.9		compact, halo
18 30.4	+ 37 34		14.7		
18 30.7	+ 34 01		15.5		
18 31.2	+ 34 00	6657	14.2		
18 32.1	+ 35 32		15.3		
18 32.1	+ 38 01		15.7		
18 32.1	+ 38 34		15.1		
18 32.4	+ 38 33		14.9		
18 33.6	+ 38 24		15.4		compact
18 34.2	+ 38 05		14.6		
18 34.4	+ 38 06		15.7		
18 35.7	+ 33 14		14.8		
18 35.8	+ 36 48		14.6		
18 36.0	+ 37 18		15.0		
18 36.1	+ 37 24		15.0		
18 36.4	+ 37 10		15.5		
18 37.0	+ 36 32		15.5		
18 37.0	+ 37 00		15.4		
18 37.1	+ 37 54		15.1		
18 37.7	+ 38 52		15.5		
18 38.3	+ 37 46		15.6		
18 38.8	+ 36 04		15.1		
18 38.9	+ 36 14	6688	13.9		
18 39.0	+ 36 06		14.6		
18 39.2	+ 36 19		15.1		
18 39.5	+ 35 00		15.0		
18 39.7	+ 36 10		15.6		
18 39.8	+ 33 44		15.4		
18 39.9	+ 34 47	6692	14.3		
18 40.8	+ 34 25		15.5		diffuse spiral
18 40.9	+ 35 34		14.5		
18 45.8	+ 33 16		15.6		
18 47.2	+ 34 24		15.3		
18 48.9	+ 33 53	6713	14.2		
18 50.7	+ 33 46		15.0		
18 51.4	+ 33 00	1296*	15.4		
18 52.0	+ 34 56		15.2		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
18 52.6	+ 37 20		15.2		compact, 3 jets
18 52.7	+ 33 45		15.1		
18 55.1	+ 36 33		13.8		
18 55.9	+ 37 56		14.9		
18 56.8	+ 36 20		15.7		



FIELD No. 202

19^h11^m $+36^\circ00'$

Survey Plate No. 1434

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
26059	18 56 19.2	+ 38 11 51	5.75
26180	18 59 57.3	+ 33 32 53	6.22
26338	19 05 31.0	+ 36 01 14	5.13
26585	19 14 37.9	+ 38 02 37	4.46
26743	19 20 41.0	+ 33 25 17	6.30
26846	19 24 21.0	+ 36 12 59	5.15

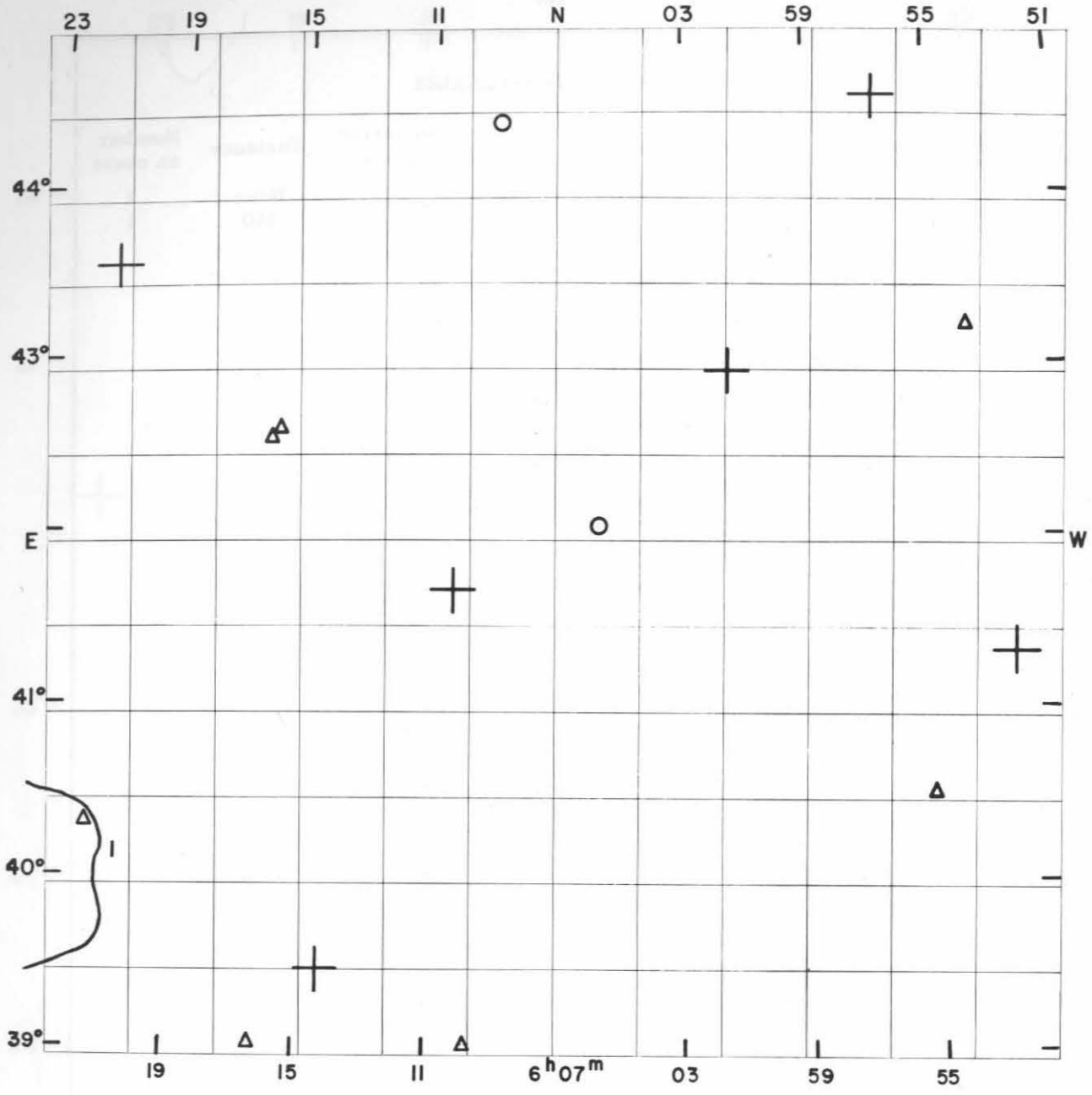
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1853.5 + 3744	medium compact	147	8.0	Near	2
1921.9 + 3901	medium compact	67	2.6	MD	1

Average number of galaxies per cluster = 107.0

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
18 55.9	+ 37 56		14.9		
18 56.8	+ 36 20		15.7		
19 02.0	+ 33 45		14.0		
19 03.1	+ 34 22		14.6		
19 15.4	+ 33 20		15.6		
19 16.4	+ 36 18		15.3		
19 16.5	+ 34 45		14.4		
19 17.8	+ 37 18		15.7		very diffuse spiral
19 22.0	+ 34 42		15.6		



FIELD No. 203

6^h07^m $+42^\circ00'$

Survey Plate No. 669

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
7450	5 52 24.3	+ 41 19 00	6.54
7563	5 56 39.5	+ 44 35 27	6.44
7685	6 01 27.6	+ 42 59 15	5.90
7913	6 10 10.0	+ 41 42 43	6.95
8049	6 14 16.4	+ 39 29 36	7.12
8242	6 21 09.7	+ 43 34 35	7.22

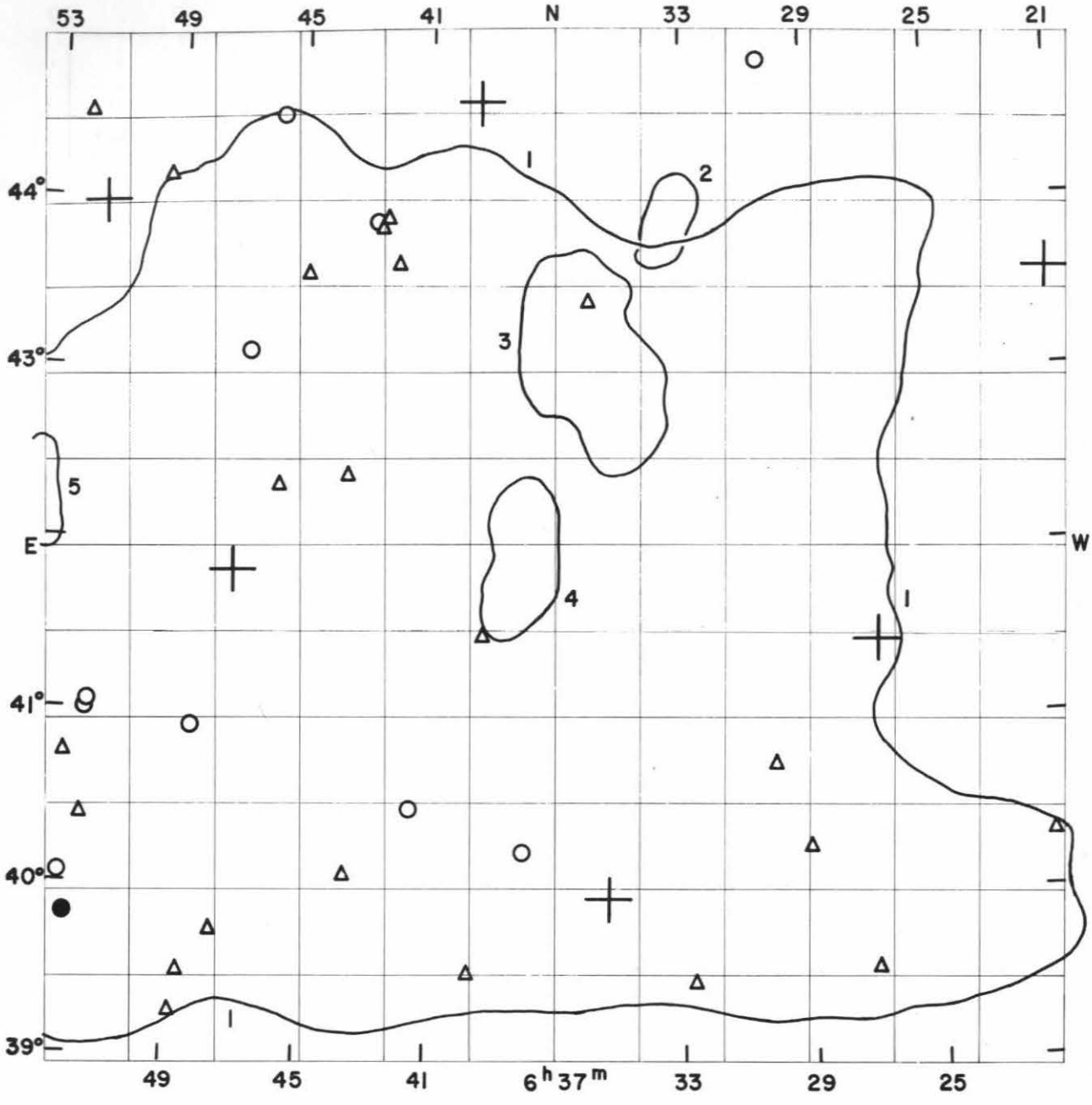
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0642.2 + 4130	open	569	32.9	Near	1

Average number of galaxies per cluster = 569.0

GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
5 53.7	+ 43 14		15.5		double system, connected
5 55.1	+ 40 31		15.6		very compact
6 05.5	+ 42 05		14.6		
6 08.8	+ 44 27		15.0		
6 09.7	+ 39 04		15.4		
6 15.6	+ 42 39		15.6		diffuse
6 16.0	+ 42 35		15.7		
6 16.3	+ 39 03		15.7		very diffuse
6 21.6	+ 40 20		15.3		very compact



FIELD No. 204

6^h37^m + 42°00'

Survey Plate No. 696

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
8242	6 21 09.7	+ 43 34 35	7.22
8423	6 26 53.1	+ 41 26 11	6.62
8655	6 35 20.3	+ 39 56 51	5.28
8751	6 39 26.8	+ 44 34 29	5.17
8931	6 47 14.0	+ 41 50 32	5.04
9042	6 51 38.3	+ 43 58 28	6.04

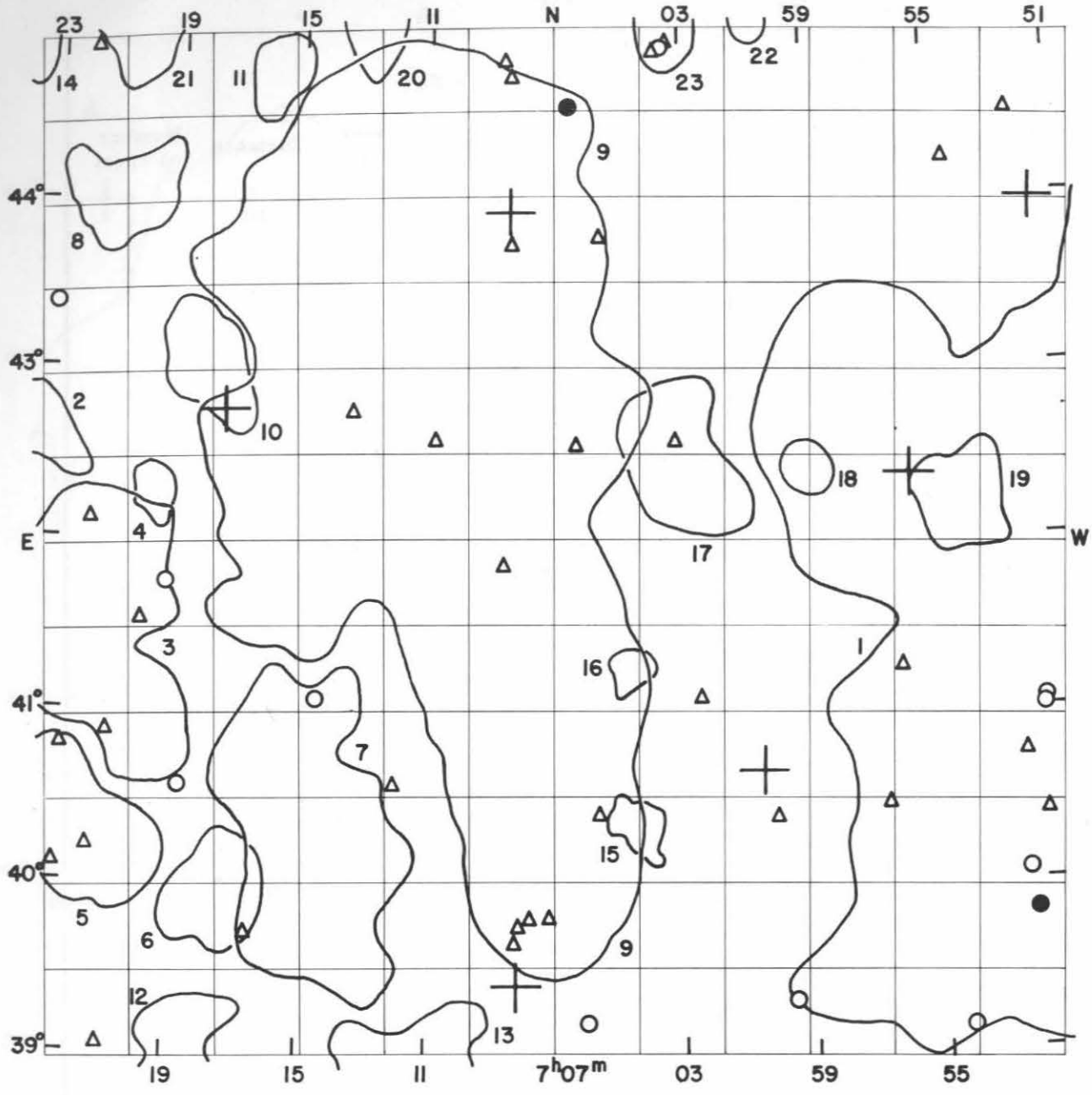
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0633.4 + 4353	medium compact	62	2.0	D	2
0635.8 + 4303	medium compact	117	5.5	MD	3
0638.0 + 4155	medium compact	88	3.5	MD	4
0642.2 + 4130	open	569	32.9	Near	1
0654.1 + 4213	medium compact	70	3.2	VD	5

Average number of galaxies per cluster = 181.2

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
6 21.6	+ 40 20		15.3		very compact
6 27.0	+ 39 31		15.5		extremely diffuse
6 29.1	+ 40 14		15.7		
6 30.1	+ 40 43		15.3		diffuse
6 30.4	+ 44 48	2242	14.7		
6 32.6	+ 39 27		15.2		
6 36.0	+ 43 24		15.6		
6 38.0	+ 40 13		15.0		double system
6 39.3	+ 41 28		15.6		
6 39.7	+ 39 30		15.4		compact
6 41.5	+ 40 28		14.9		
6 42.0	+ 43 37		15.5		
6 42.4	+ 43 53		15.7		
6 42.5	+ 43 50		15.3		
6 42.7	+ 43 52		14.7		compact with plume
6 43.5	+ 40 05		15.3		
6 43.6	+ 42 23		15.2		
6 45.0	+ 43 33		15.3		
6 45.8	+ 42 20		15.6		
6 45.9	+ 44 29		14.8		
6 46.8	+ 43 06		14.7		
6 47.5	+ 39 44		15.2		
6 48.3	+ 40 56		15.0		
6 48.5	+ 39 30		15.7		
6 48.7	+ 39 15		15.3		
6 49.5	+ 44 07		15.5		
6 51.6	+ 41 04		14.6		compact
6 51.7	+ 40 24		15.1		
6 51.7	+ 41 01		14.7		
6 52.0	+ 39 50		13.5		
6 52.2	+ 44 30		15.7		
6 52.3	+ 40 04		14.5		
6 52.3	+ 40 45		15.1		



FIELD No. 205

7^h07^m + 42°00'

Survey Plate No. 988

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
9042	6 51 38.3	+ 43 58 28	6.04
9158	6 55 47.4	+ 42 23 03	6.61
9294	7 00 29.5	+ 40 39 24	7.01
9490	7 08 13.2	+ 39 24 15	5.07
9498	7 08 26.2	+ 43 55 38	6.82
9765	7 17 31.5	+ 42 45 02	6.57

CLUSTERS OF GALAXIES

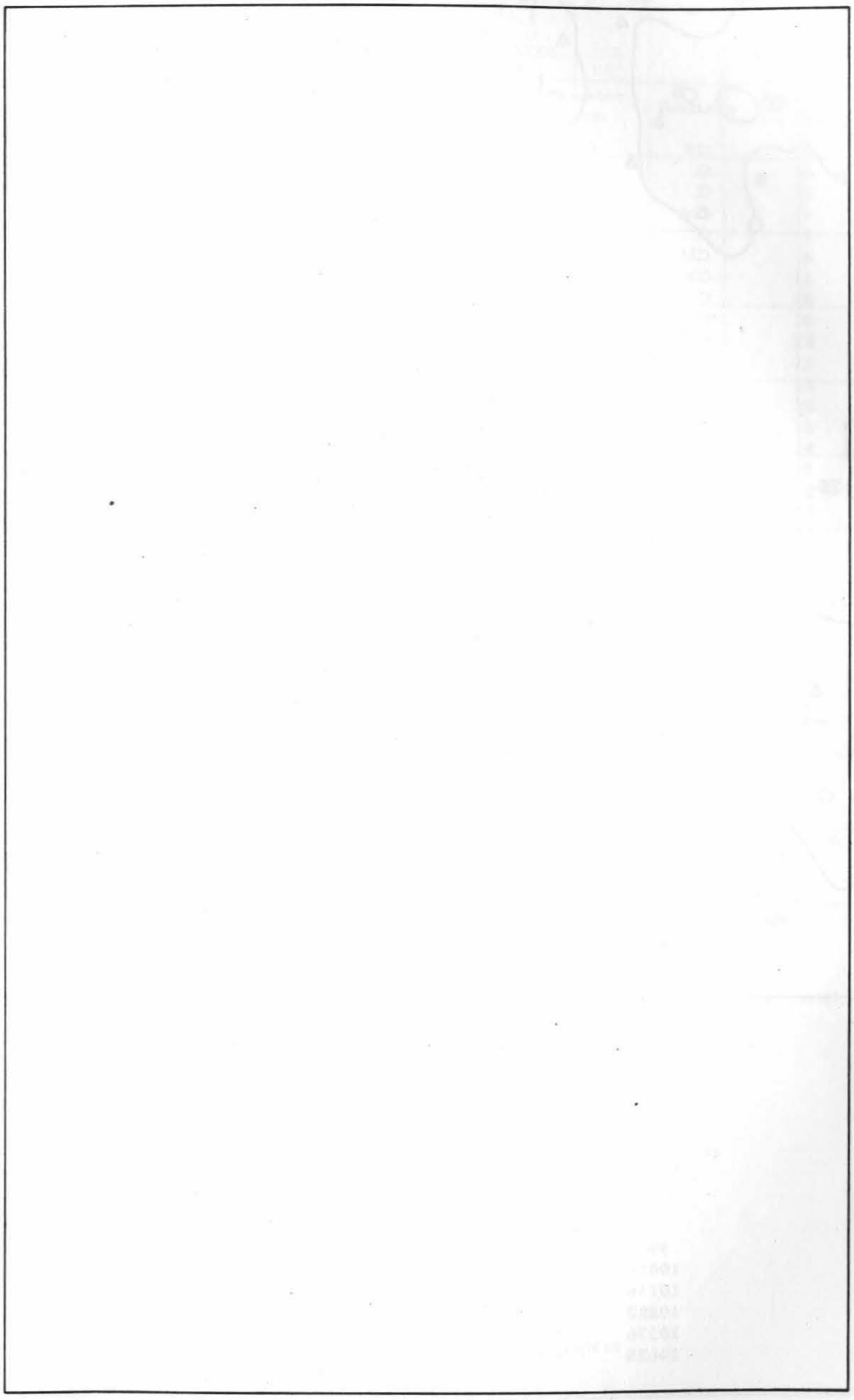
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0642.2 + 4130	open	569	32.9	Near	1
0654.1 + 4213	medium compact	70	3.2	VD	19
0659.0 + 4225	medium compact	63	1.7	D	18
0700.4 + 4801	medium compact	1273	36.4	Near	23
0702.5 + 4554	medium compact	185	6.3	D	22
0703.0 + 4228	medium compact	82	4.2	MD	17
0704.4 + 4019	medium compact	88	1.8	D	15
0704.6 + 4115	compact	58	1.5	VD	16
0710.5 + 4222	medium compact	575	18.6	Near	9
0711.2 + 3852	medium compact	119	4.3	D	13
0712.4 + 4523	medium compact	111	5.1	MD	20
0714.4 + 4015	medium compact	179	7.5	MD	7
0716.0 + 4445	medium compact	102	2.2	D	11
0717.5 + 3956	compact	150	3.5	D	6
0718.0 + 3820	medium compact	106	5.9	MD	12
0718.0 + 4301	medium compact	128	3.2	MD	10
0719.6 + 4216	compact	121	1.5	VD	4
0720.5 + 4505	medium compact	68	3.2	D	21
0721.0 + 4401	medium compact	78	3.3	D	8
0721.8 + 4019	medium compact	149	4.9	D	5
0723.1 + 4146	medium compact	345	9.3	MD	3
0723.4 + 4239	medium compact	86	2.5	D	2
0725.3 + 4520	medium compact	143	6.2	MD	14

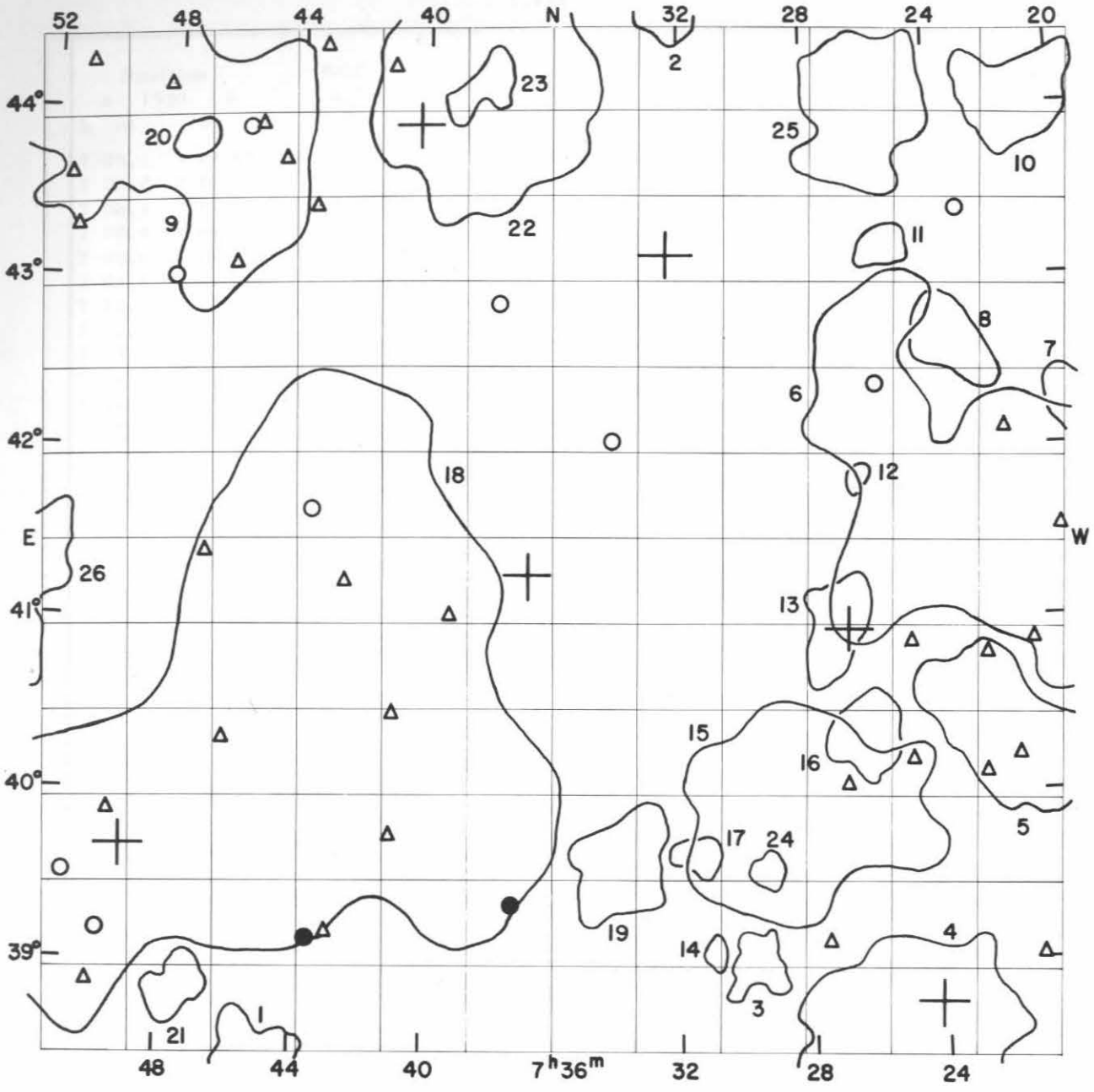
Average number of galaxies per cluster = 210.8

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
6 51.6	+41 04		14.6		compact
6 51.7	+40 24		15.1		
6 51.7	+41 01		14.7		
6 52.0	+39 50		13.5		
6 52.2	+44 30		15.7		
6 52.3	+40 04		14.5		
6 52.3	+40 45		15.1		
6 54.2	+39 09		14.2		
6 54.4	+44 13		15.4		
6 56.1	+41 15		15.4		
6 56.6	+40 27		15.4		
6 59.6	+39 18		15.0		
7 00.0	+40 23		15.3		
7 02.4	+41 05		15.1		
7 03.2	+42 35		15.6		double nucleus
7 03.3	+44 55		15.7		diffuse spiral
7 03.5	+44 53		14.7		
7 03.8	+44 52		15.5		
7 05.5	+43 46		15.2		
7 05.6	+40 25		15.5		diffuse
7 05.9	+39 10		14.8		
7 06.3	+42 33		15.7		
7 06.6	+44 32	2337	13.1		
7 07.1	+39 48		15.2		
7 07.8	+39 47		15.6		very compact

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
7 08.1	+ 39 45		15.2		double system
7 08.2	+ 39 39		15.5		
7 08.4	+ 43 44		15.5		
7 08.4	+ 44 43		15.3		system with long plume
7 08.6	+ 41 51		15.2		
7 08.6	+ 44 49		15.6		diffuse
7 10.8	+ 42 35		15.4		
7 12.0	+ 40 35		15.3		
7 13.4	+ 42 45		15.6		
7 14.5	+ 41 05		14.9		double system, bridge + plume
7 16.5	+ 39 43		15.7		diffuse
7 18.6	+ 40 34		14.9		
7 19.2	+ 41 45		15.0		
7 20.0	+ 41 31		15.3		diffuse spiral
7 21.0	+ 39 03		15.6		
7 21.0	+ 40 52		15.3		
7 21.5	+ 40 12		15.7		
7 21.7	+ 42 07		15.7		double nebula, star superposed
7 22.1	+ 44 55		15.5		
7 22.4	+ 40 47		15.6		
7 22.6	+ 40 06		15.7		extremely compact, jet
7 23.0	+ 43 23		14.3		





FIELD No. 206

7^h36^m $+41^\circ30'$

Survey Plate No. 701

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
9943	7 24 10.6	+ 38 46 07	7.05
10016	7 26 46.4	+ 40 57 04	6.99
10156	7 32 25.1	+ 43 08 34	6.30
10282	7 36 46.8	+ 41 16 47	6.73
10376	7 40 16.0	+ 43 54 53	7.19
10625	7 49 17.5	+ 39 40 05	7.09

CLUSTERS OF GALAXIES

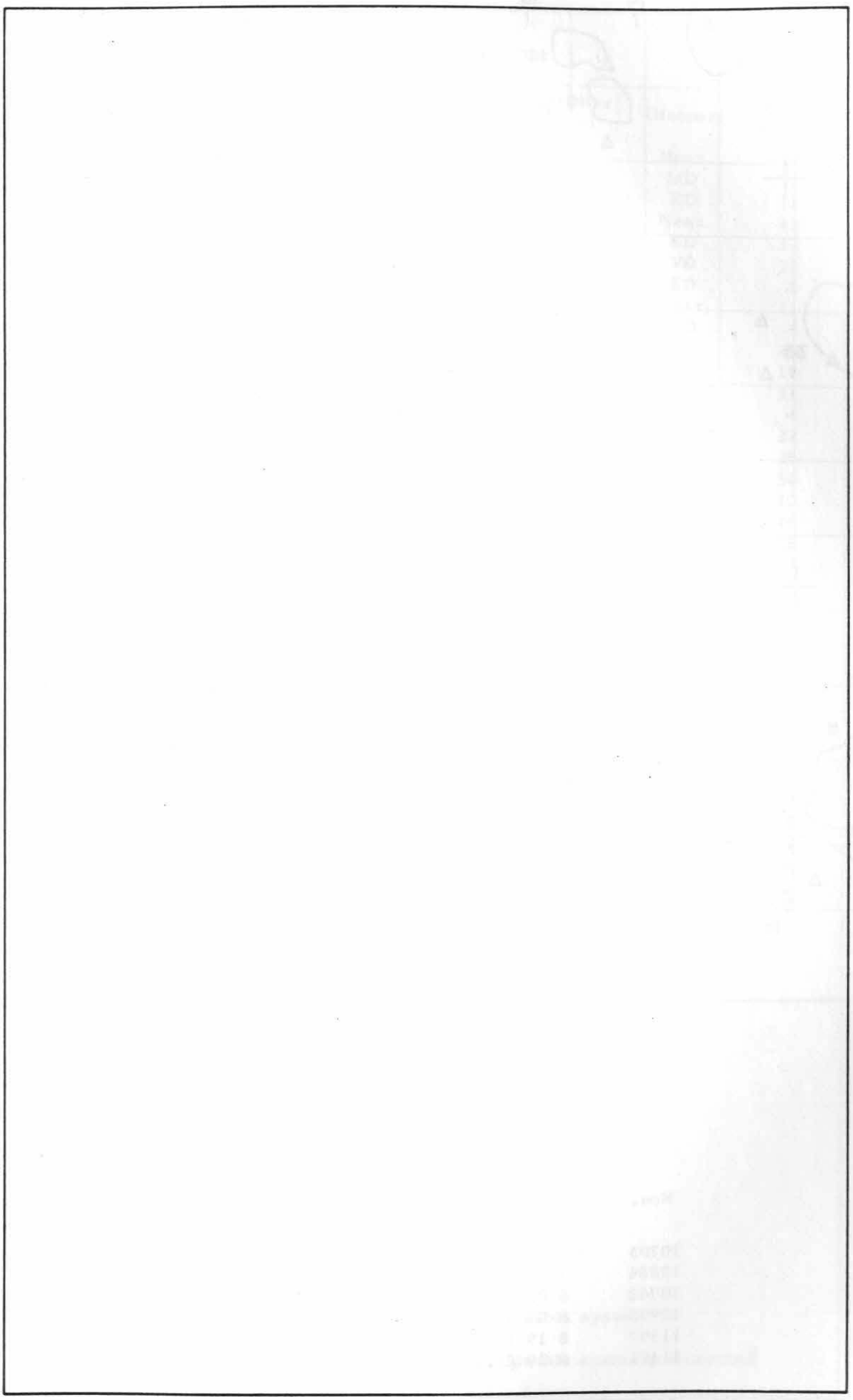
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0719.6 + 4216	compact	121	1.5	VD	7
0721.0 + 4401	medium compact	78	3.3	D	10
0721.8 + 4019	medium compact	149	4.9	D	5
0723.1 + 4146	medium compact	345	9.3	MD	6
0723.4 + 4239	medium compact	86	2.5	D	8
0724.3 + 3818	medium compact	205	8.3	MD	4
0725.4 + 4310	compact	53	1.4	VD	11
0725.9 + 4400	open	73	4.6	D	25
0726.3 + 4019	medium compact	78	2.2	D	16
0726.4 + 4149	compact	54	0.7	ED	12
0727.1 + 4057	medium compact	81	2.7	D	13
0728.2 + 3951	open	187	7.1	MD	15
0729.4 + 3932	compact	64	1.0	ED	24
0729.7 + 3900	medium compact	79	1.8	VD	3
0731.0 + 3905	compact	57	0.8	ED	14
0731.5 + 3937	compact	94	1.4	ED	17
0732.3 + 4442	medium compact	55	2.8	MD	2
0733.9 + 3935	medium compact	87	3.2	D	19
0738.0 + 4431	open	139	8.2	D	22
0738.3 + 4407	medium compact	121	1.7	VD	23
0745.0 + 3825	medium compact	82	2.8	D	1
0745.5 + 4020	open	212	16.7	Near	18
0747.4 + 3850	medium compact	94	1.9	VD	21
0747.6 + 4349	medium compact	66	1.3	ED	20
0749.3 + 4402	open	193	9.7	MD	9
0753.2 + 4101	medium compact	95	4.5	Near	26

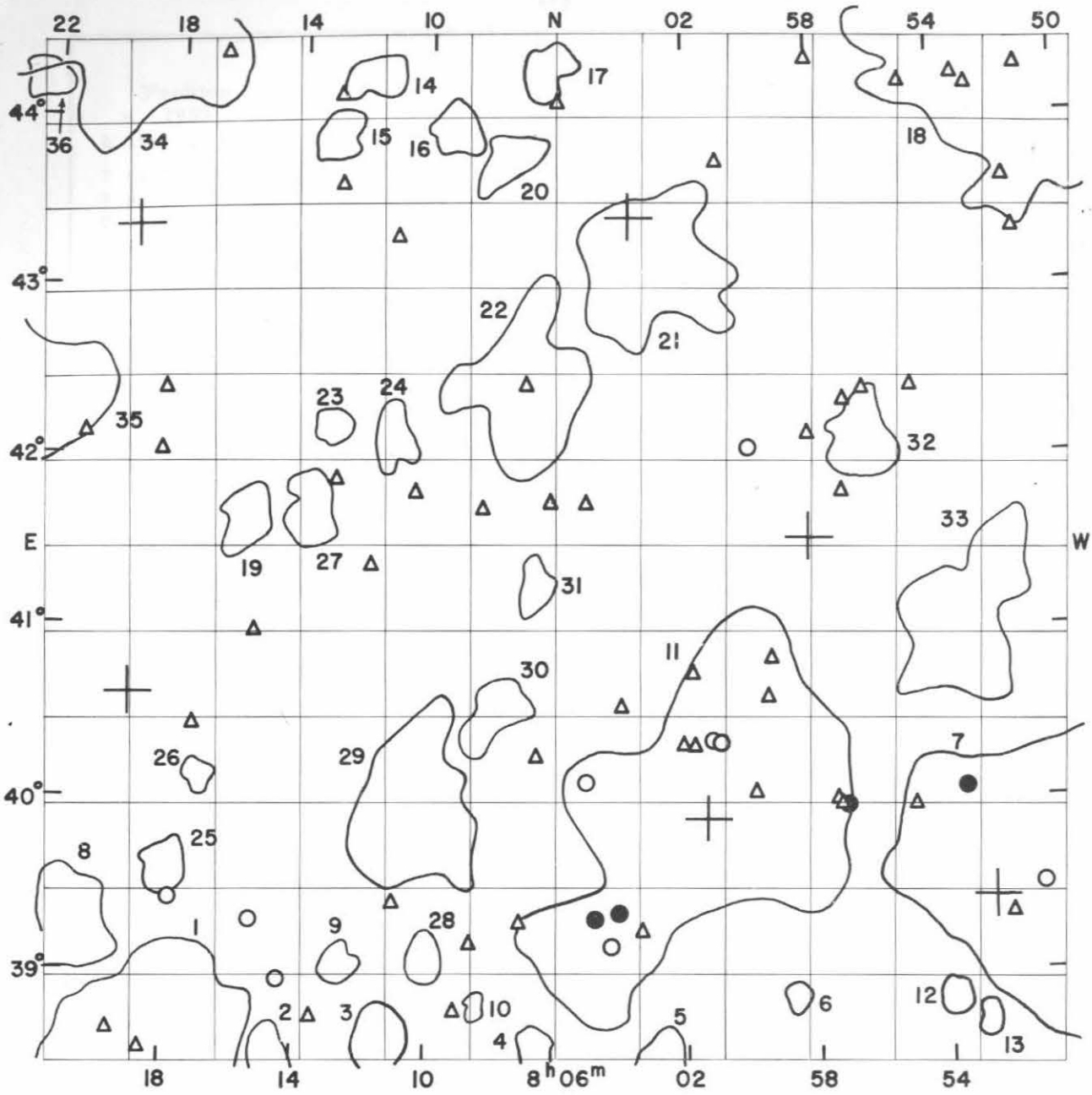
Average number of galaxies per cluster = 113.4

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
7 20.0	+ 41 31		15.3		diffuse spiral
7 21.0	+ 39 03		15.6		
7 21.0	+ 40 52		15.3		
7 21.5	+ 40 12		15.7		
7 21.7	+ 42 07		15.7		double nebula, star superposed
7 22.4	+ 40 47		15.6		
7 22.6	+ 40 06		15.7		extremely compact, jet
7 23.0	+ 43 23		14.3		
7 24.8	+ 40 10		15.7		compact
7 24.8	+ 40 51		15.5		very diffuse
7 25.7	+ 42 22		14.9		
7 26.9	+ 40 02		15.2		double nebula, jets
7 27.6	+ 39 07		15.5		
7 34.0	+ 42 03		14.5		
7 37.3	+ 39 20	2424	13.9		
7 37.7	+ 42 52		14.6		compact
7 39.2	+ 41 02		15.4		
7 40.9	+ 40 28		15.7		
7 41.0	+ 39 46		15.5		
7 41.1	+ 44 15		15.3		
7 42.5	+ 41 15		15.6		compact
7 43.0	+ 39 10		15.1		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
7 43.3	+ 44 23		15.3		
7 43.5	+ 39 08	2444+2445	13.1		peculiar multiple system
7 43.5	+ 41 40		14.8		double system
7 43.6	+ 43 25		15.5		very compact
7 44.5	+ 43 43		15.7		
7 45.4	+ 43 55		15.6		
7 45.8	+ 43 54		14.7		
7 46.1	+ 43 05		15.6		compact
7 46.2	+ 40 19		15.4		
7 46.9	+ 41 23		15.6		
7 48.0	+ 43 00		15.0		
7 48.4	+ 44 08		15.6		system with jet
7 49.7	+ 39 53		15.7		
7 49.9	+ 39 11		14.7		
7 50.1	+ 38 52		15.2		very compact
7 51.0	+ 39 30		14.8		
7 51.0	+ 44 17		15.4		compact
7 51.3	+ 43 18		15.3		
7 51.5	+ 43 37		15.5		





FIELD No. 207

8^h06^m $+41^\circ30'$

Survey Plate No. 1329

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
10703	7 52 32.9	+ 39 25 12	7.14
10854	7 58 07.8	+ 41 31 39	7.20
10942	8 01 18.8	+ 39 53 01	7.17
10995	8 03 42.5	+ 43 24 21	6.24
11397	8 19 18.7	+ 40 36 18	7.00
11401	8 19 25.2	+ 43 21 01	4.43

CLUSTERS OF GALAXIES

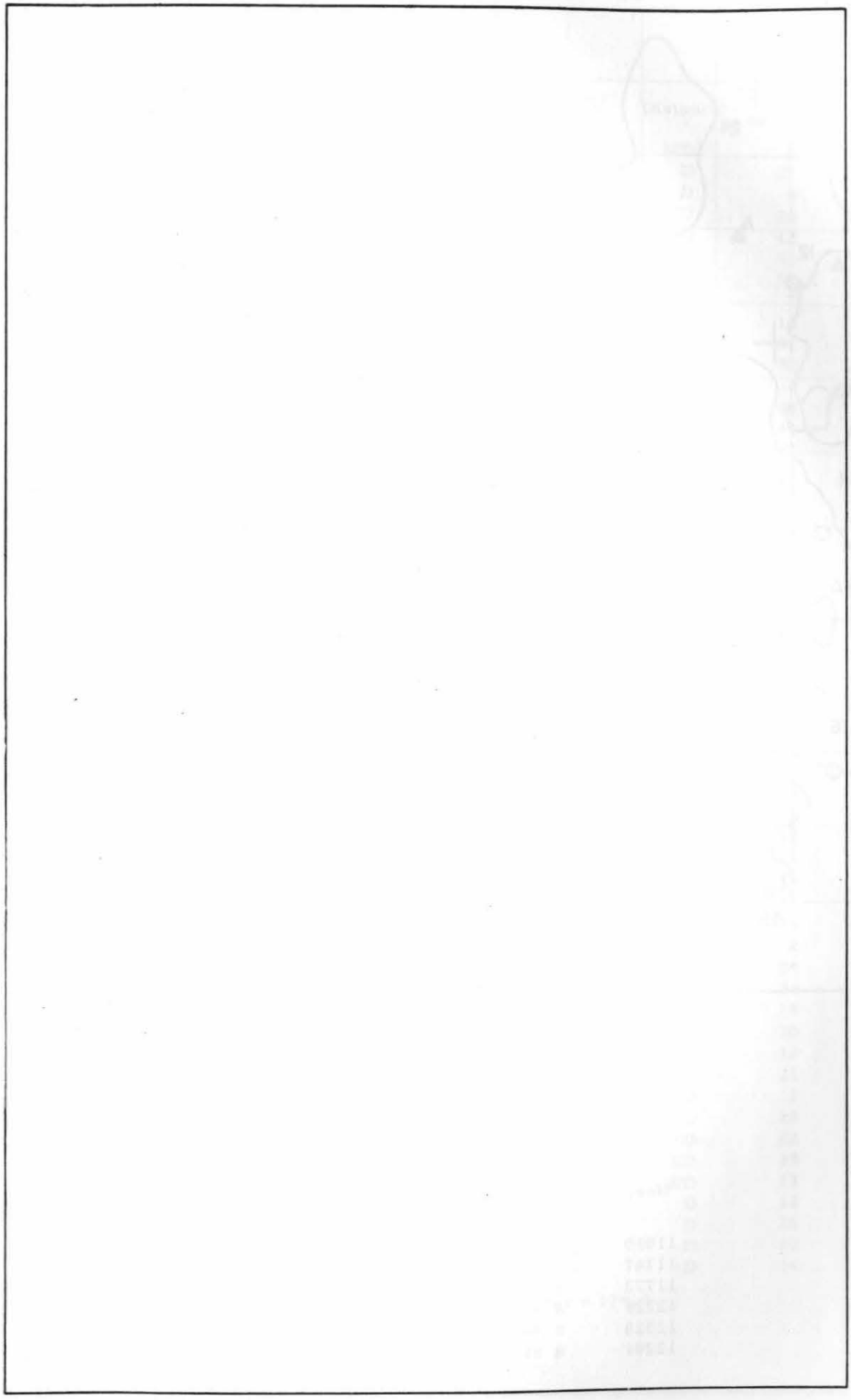
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0745.5 + 4020	open	212	16.7	Near	7
0749.3 + 4402	open	193	9.7	MD	18
0752.9 + 3842	compact	86	0.9	ED	13
0753.2 + 4101	medium compact	95	4.5	Near	33
0753.8 + 3850	medium compact	85	1.0	ED	12
0756.3 + 4205	medium compact	78	2.3	VD	32
0758.6 + 3850	compact	56	0.8	ED	6
0801.3 + 3954	open	144	9.5	Near	11
0802.8 + 3827	medium compact	111	1.7	ED	5
0803.0 + 4307	open	123	4.8	D	21
0806.3 + 4415	medium compact	85	1.6	ED	17
0806.6 + 4115	medium compact	83	1.4	ED	31
0806.7 + 3831	medium compact	76	1.3	ED	4
0806.9 + 4223	medium compact	123	4.5	MD	22
0807.5 + 4344	medium compact	51	1.7	VD	20
0807.9 + 4030	medium compact	68	2.0	VD	30
0808.5 + 3847	compact	56	0.7	ED	10
0809.1 + 4355	medium compact	88	1.6	ED	16
0810.0 + 3905	medium compact	69	1.3	ED	28
0810.2 + 3956	open	98	4.6	D	29
0811.1 + 4206	medium compact	70	1.7	VD	24
0811.2 + 3838	medium compact	108	1.8	ED	3
0811.8 + 4414	open	80	1.6	ED	14
0812.6 + 3902	compact	93	1.1	ED	9
0813.0 + 4210	compact	67	1.1	ED	23
0813.0 + 4353	medium compact	82	1.5	ED	15
0813.7 + 4141	medium compact	69	1.9	VD	27
0814.7 + 3825	medium compact	73	1.9	VD	2
0815.7 + 4137	compact	83	1.8	ED	19
0817.0 + 4007	compact	54	0.9	ED	26
0817.2 + 3802	open	374	9.0	MD	1
0817.9 + 3935	medium compact	103	1.5	VD	25
0819.9 + 4424	medium compact	176	6.1	D	34
0820.7 + 3915	medium compact	91	2.9	D	8
0822.5 + 4411	medium compact	69	1.4	VD	36
0836.3 + 4147	open	550	27.6	Near	35

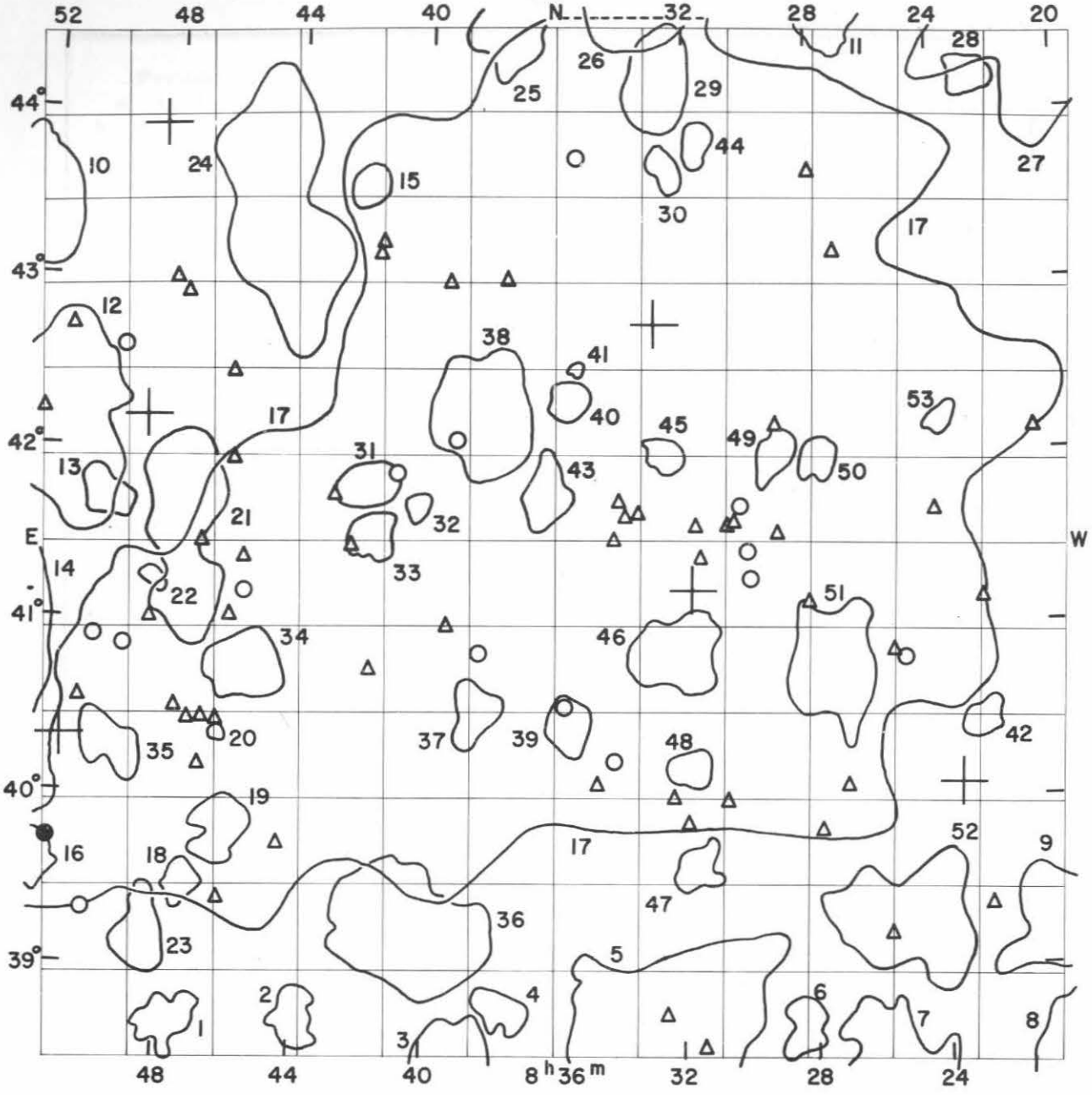
Average number of galaxies per cluster = 114.5

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
7 51.0	+ 39 30		14.8		
7 51.0	+ 44 17		15.4		compact
7 51.3	+ 43 18		15.3		
7 51.5	+ 43 37		15.5		
7 52.0	+ 39 19		15.5		
7 52.7	+ 44 10		15.7		
7 53.1	+ 44 14		15.7		
7 53.3	+ 40 04	2476	13.4		
7 54.7	+ 42 24		15.6		double system
7 54.8	+ 39 58		15.6		
7 54.8	+ 44 11		15.7		double system, connected

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
7 56.3	+ 42 23		15.4		
7 56.9	+ 42 19		15.5		
7 57.0	+ 39 58	2493	13.1		
7 57.0	+ 41 48		15.4		double nucleus
7 57.1	+ 39 59	2495	15.6		
7 57.2	+ 40 00		15.6		
7 57.9	+ 44 19		15.5		
7 58.1	+ 42 08		15.3		very compact
7 59.3	+ 40 49		15.2		
7 59.4	+ 40 36		15.4		
7 59.8	+ 40 03		15.4		
7 59.9	+ 42 03		14.7		
8 00.8	+ 43 43		15.7		
8 00.9	+ 40 20		15.0		compact
8 01.1	+ 40 21		14.6		
8 01.7	+ 40 19		15.1		
8 01.8	+ 40 44		15.3		
8 02.0	+ 40 19		15.6		
8 03.3	+ 39 14		15.5		
8 03.9	+ 40 33		15.2		very diffuse spir
8 04.0	+ 39 20		13.5		
8 04.2	+ 39 09		14.4		
8 04.7	+ 39 18	2524	13.7		
8 05.0	+ 40 07		14.9		
8 05.0	+ 41 44		15.7		
8 05.9	+ 44 05		15.5		
8 06.1	+ 41 45		15.5		
8 06.6	+ 40 15		15.4		diffuse spiral
8 07.0	+ 42 25		15.6		
8 07.1	+ 39 17		15.5		
8 08.3	+ 41 43		15.3		
8 08.6	+ 39 10		15.4		
8 09.1	+ 38 46		15.7		diffuse spiral
8 10.4	+ 41 48		15.2		
8 11.0	+ 39 25		15.2		
8 11.0	+ 43 17		15.1		compact
8 11.8	+ 41 22		15.3		
8 12.8	+ 43 36		15.5		compact
8 12.9	+ 41 52		15.7		
8 12.9	+ 44 07		15.6		
8 13.5	+ 38 44		15.6		
8 14.5	+ 38 57		14.9		
8 15.3	+ 39 18		15.0		compact
8 15.4	+ 41 00		15.7		double system
8 16.7	+ 44 23		15.2		compact
8 17.2	+ 40 27		15.3		
8 17.8	+ 39 26		14.8		double system
8 18.3	+ 42 23		15.7		double system
8 18.4	+ 42 01		15.4		double system, faint bridges
8 18.6	+ 38 32		15.7		compact
8 19.5	+ 38 39		15.5		
8 20.9	+ 42 07		15.7		eruptive galaxy





FIELD No. 208

8^h36^m $+41^\circ30'$

Survey Plate No. 707

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
11510	8 23 28.2	+ 40 03 26	7.22
11747	8 31 43.7	+ 41 11 48	7.58
11772	8 32 53.8	+ 42 45 13	6.98
12221	8 48 36.0	+ 43 54 51	5.24
12228	8 48 52.0	+ 42 11 31	6.14
12291	8 51 15.1	+ 40 19 34	7.52

CLUSTERS OF GALAXIES

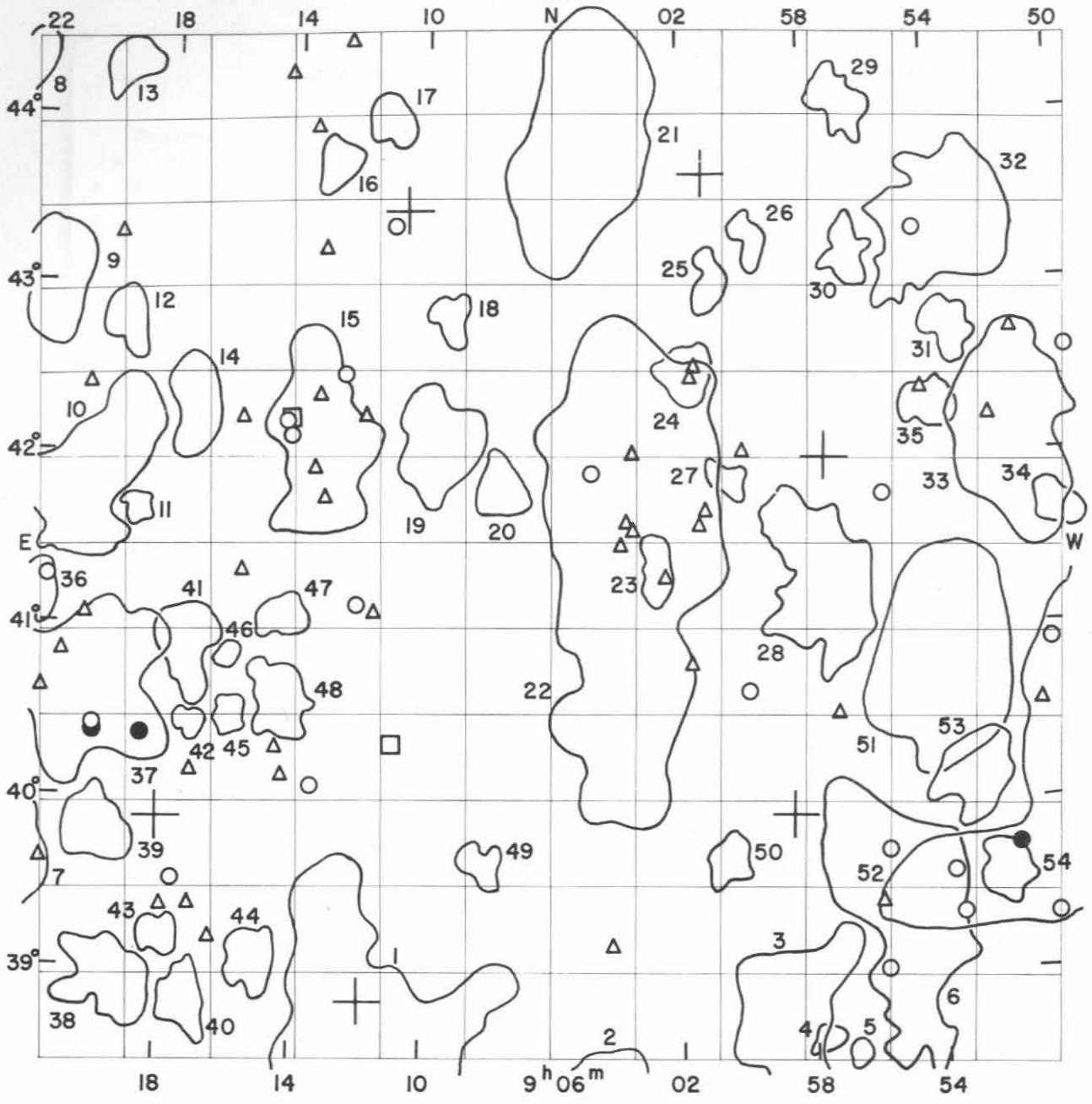
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0817.2 + 3802	open	374	9.0	MD	8
0819.9 + 4424	medium compact	176	6.1	D	27
0820.7 + 3915	medium compact	91	2.9	D	9
0822.5 + 4411	medium compact	69	1.4	VD	28
0822.8 + 4027	compact	128	1.2	ED	42
0823.9 + 4211	compact	86	0.9	ED	53
0825.1 + 3916	medium compact	114	4.1	MD	52
0825.6 + 3826	compact	188	3.5	ED	7
0827.3 + 4432	medium compact	81	2.0	VD	11
0827.4 + 4045	medium compact	92	3.5	D	51
0827.8 + 4158	medium compact	87	1.3	ED	50
0828.3 + 3840	compact	55	1.5	VD	6
0829.1 + 4200	medium compact	81	1.4	VD	49
0831.6 + 4347	medium compact	79	1.2	ED	44
0831.7 + 3935	medium compact	83	1.4	VD	47
0831.8 + 4010	medium compact	90	1.2	ED	48
0832.2 + 3845	medium compact	130	5.5	Near	5
0832.2 + 4050	medium compact	77	2.3	VD	46
0832.5 + 4340	medium compact	79	1.3	ED	30
0832.6 + 4200	open	67	1.1	ED	45
0832.7 + 4410	medium compact	92	2.8	VD	29
0833.1 + 4452	medium compact	117	4.7	D	26
0835.3 + 4230	compact	36	0.4	ED	41
0835.6 + 4024	medium compact	96	1.5	ED	39
0835.6 + 4218	compact	91	1.2	ED	40
0836.2 + 4145	open	78	1.8	VD	43
0836.3 + 4147	open	550	27.6	Near	17
0837.4 + 4431	open	94	2.8	D	25
0837.5 + 3845	compact	126	1.4	ED	4
0838.3 + 4214	medium compact	84	3.6	VD	38
0838.4 + 4030	medium compact	86	1.6	VD	37
0839.0 + 3824	compact	240	2.9	VD	3
0840.3 + 4142	compact	105	0.8	ED	32
0840.4 + 3914	medium compact	130	4.5	D	36
0841.7 + 4131	medium compact	102	1.5	ED	33
0841.9 + 4149	medium compact	60	1.7	ED	31
0842.0 + 4332	medium compact	79	1.3	ED	15
0843.8 + 3842	medium compact	70	1.6	VD	2
0844.9 + 4322	medium compact	134	5.5	D	24
0845.6 + 4045	medium compact	147	2.1	VD	34
0846.2 + 3948	medium compact	108	2.0	VD	19
0846.4 + 4021	compact	47	0.4	ED	20
0847.4 + 3928	medium compact	100	1.3	VD	18
0847.6 + 4132	open	115	4.0	VD	21
0847.7 + 3839	medium compact	149	1.7	ED	1
0848.5 + 3909	medium compact	143	2.0	ED	23
0848.5 + 4114	compact	44	0.6	ED	22
0849.7 + 4015	medium compact	121	1.9	ED	35
0850.0 + 4143	compact	105	1.5	ED	13
0851.5 + 4207	compact	228	4.6	D	12
0852.0 + 3935	medium compact	59	1.7	D	16
0853.4 + 4321	medium compact	192	4.5	D	10
0853.8 + 4048	open	154	5.6	D	14

Average number of galaxies per cluster = 119.0

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
8 20.9	+ 42 07		15.7		eruptive galaxy
8 22.6	+ 39 21		15.5		
8 22.7	+ 41 09		15.4		
8 24.1	+ 41 40		15.4		diffuse spiral
8 25.1	+ 40 48		15.0		
8 25.5	+ 40 50		15.5		
8 25.7	+ 39 12		15.6		
8 26.9	+ 40 03		15.6		
8 27.2	+ 43 09		15.5		
8 27.7	+ 39 47		15.5		
8 27.8	+ 43 38		15.7		
8 28.1	+ 41 07		15.7		diffuse with absorption
8 29.0	+ 41 32		15.2		
8 29.1	+ 42 10		15.3		
8 29.8	+ 41 16		14.9		
8 30.0	+ 41 26		15.0		
8 30.2	+ 41 42		14.7		
8 30.4	+ 41 36		15.6		
8 30.6	+ 39 59		15.4		diffuse spiral
8 30.7	+ 41 35		15.7		
8 31.4	+ 38 32		15.2		
8 31.5	+ 41 23		15.5		diffuse
8 31.6	+ 41 35		15.6		
8 31.8	+ 39 51		15.6		
8 32.3	+ 40 00		15.3		
8 32.5	+ 38 44		15.5		double system
8 33.3	+ 41 39		15.6		
8 33.7	+ 41 38		15.1		
8 34.0	+ 40 13		14.8		
8 34.0	+ 41 44		15.4		
8 34.1	+ 41 30		15.5		
8 34.6	+ 40 05		15.7		
8 35.3	+ 43 43		15.0		
8 35.6	+ 40 32		15.0		compact
8 37.5	+ 43 01		15.5		
8 38.3	+ 40 50		14.9		double system in halo
8 39.0	+ 42 05		15.0		
8 39.3	+ 41 00		15.5		
8 39.3	+ 43 00		15.2		
8 40.9	+ 41 55		14.1		system with jet
8 41.4	+ 43 14		15.6		
8 41.5	+ 43 10		15.4		
8 41.7	+ 40 45		15.2		
8 42.3	+ 41 28		15.1		
8 42.9	+ 41 46		15.1		
8 44.5	+ 39 43		15.7		compact
8 45.7	+ 41 12		14.9		compact
8 45.7	+ 41 23		15.4		compact
8 46.1	+ 41 03		15.7		
8 46.1	+ 41 58		15.6		
8 46.2	+ 39 24		15.3		diffuse spiral
8 46.2	+ 42 28		15.7		
8 46.4	+ 40 26		15.5		diffuse
8 46.9	+ 40 27		15.1		compact
8 47.0	+ 40 11		15.7		compact
8 47.0	+ 41 29		15.3		very diffuse spiral

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
8 47.3	+40 27		15.4		
8 47.6	+42 55		15.4		
8 47.7	+40 31		15.7		
8 48.0	+43 00		15.7		
8 48.6	+41 02		15.2		system with long plumes
8 49.4	+40 53		15.0		
8 49.6	+42 36		14.1		
8 50.3	+40 55		14.9		
8 50.4	+39 20		14.6		
8 50.7	+40 33		15.6		
8 51.3	+42 43		15.4		
8 51.5	+39 44	2691	13.9		
8 52.1	+42 13		15.3		



FIELD No. 209

9^h06^m $+41^o30'$

Survey Plate No. 721

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
12434	8 57 24.1	+ 41 58 56	4.09
12461	8 58 27.8	+ 39 54 41	6.21
12518	9 01 09.1	+ 43 38 29	8.0
12716	9 10 32.5	+ 43 25 31	5.30
12747	9 11 49.2	+ 38 48 58	6.75
12884	9 18 06.1	+ 39 52 47	7.12

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0836.3 + 4147	open	550	27.6	Near	52
0850.0 + 4143	compact	105	1.5	ED	34
0851.5 + 4207	compact	228	4.6	D	33
0852.0 + 3935	medium compact	59	1.7	D	54
0852.9 + 4009	medium compact	69	2.4	MD	53
0853.3 + 4245	compact	125	1.6	ED	31
0853.4 + 4321	medium compact	192	4.5	D	32
0853.8 + 4048	open	154	5.6	D	51
0854.0 + 4217	medium compact	131	1.6	ED	35
0855.1 + 3918	medium compact	375	5.5	D	6
0856.5 + 4310	open	70	1.7	ED	30
0856.7 + 3832	medium compact	58	0.8	ED	5
0856.7 + 4404	medium compact	135	1.9	ED	29
0857.4 + 4116	medium compact	112	4.0	VD	28
0857.6 + 3837	medium compact	60	0.9	ED	4
0858.6 + 3836	medium compact	149	4.6	MD	3
0859.6 + 4315	medium compact	84	1.3	ED	26
0900.4 + 4152	medium compact	82	1.2	ED	27
0900.6 + 3940	compact	106	1.5	VD	50
0901.0 + 4300	medium compact	102	1.4	ED	25
0901.8 + 4229	medium compact	99	1.9	ED	24
0902.7 + 4120	medium compact	103	1.4	ED	23
0903.5 + 4122	open	210	9.1	VD	22
0903.9 + 3716	open	147	9.4	Near	2
0905.0 + 4351	medium compact	153	5.9	MD	21
0907.6 + 4149	medium compact	90	1.8	D	20
0908.1 + 3939	compact	80	1.2	ED	49
0909.1 + 4248	compact	151	1.3	ED	18
0909.5 + 4205	medium compact	120	3.0	VD	19
0911.2 + 3846	open	221	6.1	MD	1
0911.2 + 4359	compact	112	1.5	ED	17
0912.9 + 4343	medium compact	115	1.5	ED	16
0913.1 + 4205	open	103	4.4	D	15
0914.3 + 4035	medium compact	89	2.1	D	48
0914.4 + 4104	medium compact	71	1.5	VD	47
0915.1 + 3903	medium compact	103	1.8	VD	44
0915.9 + 4030	compact	103	1.1	ED	45
0916.0 + 4050	compact	61	0.8	ED	46
0917.1 + 4026	open	60	0.9	ED	42
0917.1 + 4218	medium compact	72	2.3	VD	14
0917.2 + 3848	medium compact	147	2.0	ED	40
0917.2 + 4053	compact	143	2.3	MD	41
0918.0 + 3912	medium compact	111	1.2	ED	43
9019.0 + 4140	open	57	0.9	ED	11
0919.5 + 3856	medium compact	70	2.7	VD	38
0919.6 + 4246	open	116	1.7	ED	12
0919.8 + 4419	medium compact	151	1.7	ED	13
0920.0 + 3948	medium compact	60	2.2	VD	39
0920.4 + 4037	open	108	5.2	Near	37
0920.5 + 4150	medium compact	164	4.6	VD	10
0921.8 + 4302	compact	228	3.0	VD	9
0922.0 + 4111	medium compact	91	1.5	VD	36
0923.2 + 3934	open	98	4.1	D	7
0923.9 + 4410	medium compact	192	2.7	VD	8

Average number of galaxies per cluster = 128.6

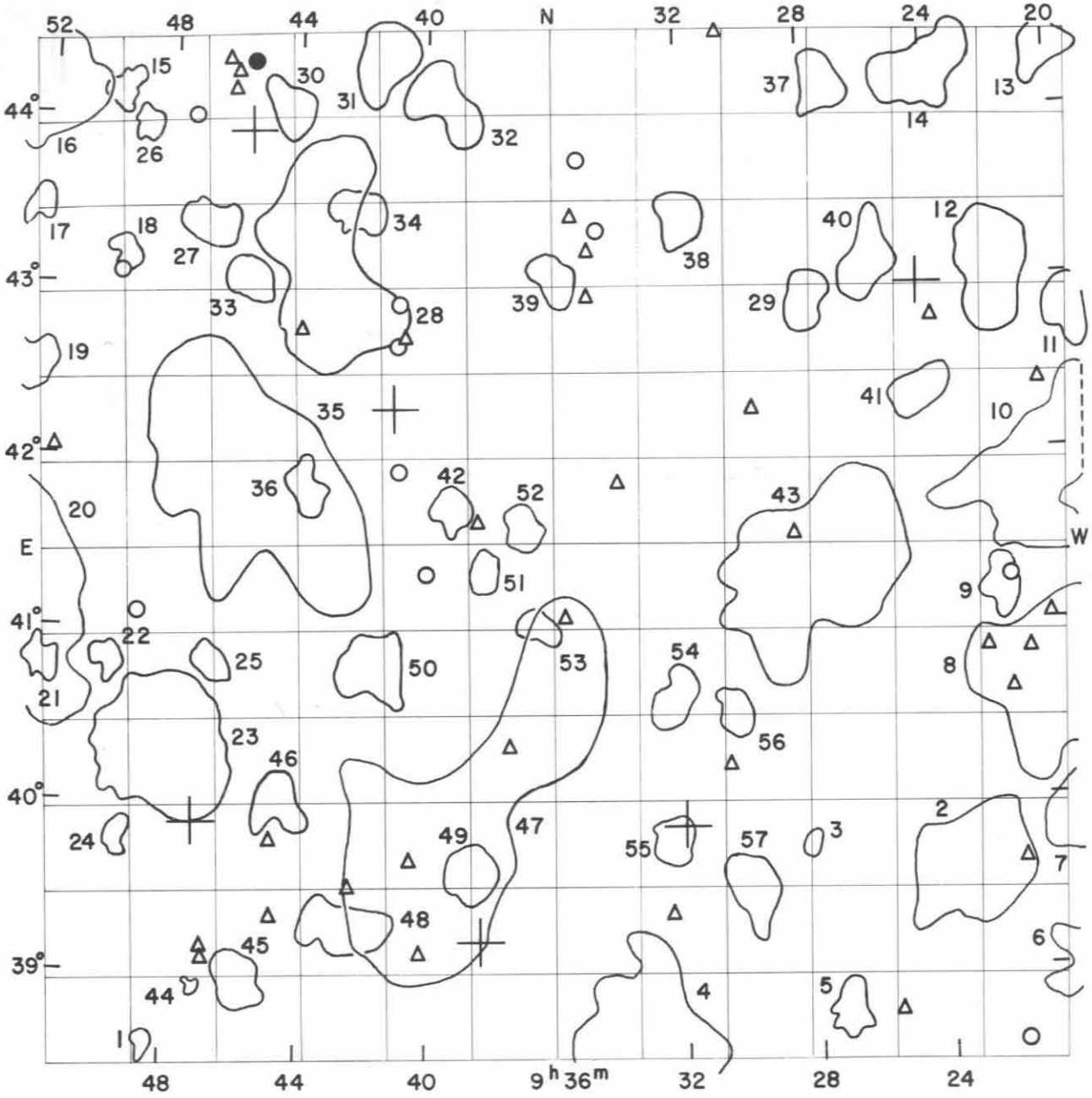
GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
8 49.6	+ 42 36		14.1		
8 50.3	+ 40 55		14.9		
8 50.4	+ 39 20		14.6		
8 50.7	+ 40 33		15.6		
8 51.3	+ 42 43		15.4		
8 51.5	+ 39 44	2691	13.9		
8 52.1	+ 42 13		15.3		
8 53.3	+ 39 20		14.9		
8 53.6	+ 39 34	2424*	14.4		
8 54.2	+ 42 22		15.7		
8 54.4	+ 43 18		14.5		
8 55.6	+ 39 42		14.7		double nucleus, faint jet
8 55.6	+ 41 46		14.6		
8 55.7	+ 39 00		15.0		
8 55.8	+ 39 24		15.5		
8 57.0	+ 40 30		15.5		
8 59.8	+ 40 38		14.9		compact
8 59.9	+ 42 01		15.7		
9 01.1	+ 41 41		15.6		very compact
9 01.3	+ 41 36		15.6		
9 01.5	+ 42 31		15.5		
9 01.6	+ 40 48		15.6		
9 01.6	+ 42 27		15.6		
9 02.4	+ 41 17		15.7		extremely compact
9 03.4	+ 41 35		15.4		
9 03.4	+ 42 00		15.6		double system
9 03.6	+ 41 37		15.1		
9 03.8	+ 41 29		15.5		
9 04.0	+ 39 09		15.2		
9 04.7	+ 41 55	2755	14.2		
9 10.9	+ 40 20	2782	12.3	+2517	m_H = 12.4 SBp
9 10.9	+ 43 20		14.8		
9 11.5	+ 41 05		15.2		
9 11.7	+ 42 14		15.4		
9 12.0	+ 41 07	2785	14.9		
9 12.4	+ 44 26		15.4		very compact
9 12.5	+ 42 28		14.8		
9 13.1	+ 41 45		15.7		compact
9 13.1	+ 43 12		15.3		double system, disrupted
9 13.2	+ 42 20		15.5		compact
9 13.4	+ 40 05		15.0		
9 13.4	+ 41 55		15.3		compact
9 13.5	+ 43 55		15.3		triple system
9 14.1	+ 42 07		15.0		
9 14.1	+ 42 12	2798	12.9	+1708	m_H = 12.9 E
9 14.2	+ 42 12	2799	14.4		
9 14.3	+ 40 08		15.4		
9 14.4	+ 44 14		15.5		diffuse
9 14.5	+ 40 18		15.7		
9 15.6	+ 41 19		15.4		double system
9 15.7	+ 42 13		15.6		compact
9 16.4	+ 39 11		15.7		
9 17.0	+ 39 22		15.1		
9 17.0	+ 40 10		15.7		
9 17.5	+ 39 31	2838	14.7		compact
9 17.8	+ 39 22		15.5		diffuse

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
9 18.6	+ 40 22	2844	13.6		m_H = 13.0
9 19.7	+ 43 17		15.7		
9 20.0	+ 40 23	2852	14.0		compact
9 20.1	+ 40 25	2853	14.6		
9 20.5	+ 41 03		15.5		
9 20.5	+ 42 24		15.6		
9 21.2	+ 40 50		15.4		
9 21.6	+ 39 37		15.7		compact
9 21.7	+ 41 16	2860	14.8		
9 21.8	+ 40 37		15.2		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
2782	-	-	12.74	Sa	12.5	Sa	-	-
2798	-	-	12.97	SBa	13.0	SBa	-	-



FIELD No. 210

9^h36^m $+41^o30'$

Survey Plate No. 661

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
13024	9 24 19.5	+ 42 58 58	7.37
13221	9 31 57.1	+ 39 50 40	4.99
13361	9 38 16.8	+ 39 10 47	6.96
13413	9 40 59.1	+ 42 16 54	6.82
13503	9 45 35.9	+ 43 53 56	7.76
13533	9 47 10.0	+ 39 51 56	6.76

CLUSTERS OF GALAXIES

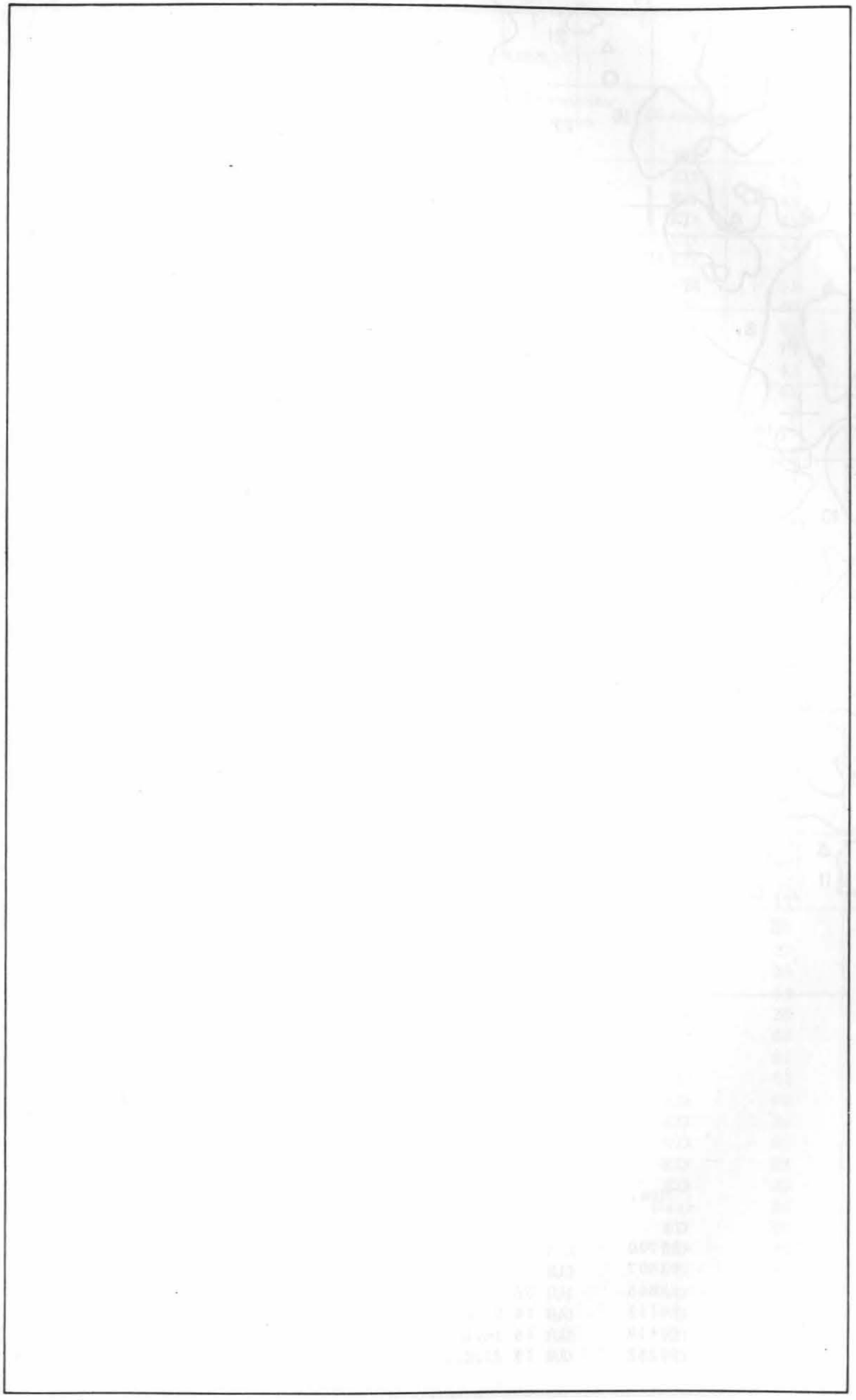
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0919.5 + 3856	medium compact	70	2.7	VD	6
0919.6 + 4246	open	116	1.7	ED	11
0919.8 + 4419	medium compact	151	1.7	ED	13
0920.0 + 3948	medium compact	60	2.2	VD	7
0920.4 + 4037	open	108	5.2	Near	8
0920.5 + 4150	medium compact	164	4.6	VD	10
0921.8 + 4302	compact	228	3.0	VD	12
0922.0 + 4111	medium compact	91	1.5	VD	9
0923.2 + 3934	open	98	4.1	D	2
0923.9 + 4410	medium compact	192	2.7	VD	14
0924.3 + 4220	medium compact	92	1.6	ED	41
0925.8 + 4305	open	112	2.0	ED	40
0927.1 + 3845	medium compact	101	1.4	VD	5
0927.1 + 4408	medium compact	67	1.7	ED	37
0927.9 + 4119	open	116	5.6	D	43
0927.9 + 4252	medium compact	79	1.6	ED	29
0928.1 + 3943	compact	52	0.7	ED	3
0930.0 + 3927	medium compact	93	1.9	ED	57
0930.4 + 4030	medium compact	62	1.3	ED	56
0931.9 + 4321	medium compact	85	1.6	VD	38
0932.3 + 4034	compact	75	1.6	ED	54
0932.4 + 3945	compact	93	1.4	ED	55
0932.9 + 3825	open	207	5.7	D	4
0935.9 + 4301	medium compact	92	1.5	ED	39
0936.4 + 4100	compact	94	1.2	ED	53
0936.9 + 4135	open	67	1.3	ED	52
0938.1 + 4119	compact	48	1.2	ED	51
0938.6 + 3934	compact	104	1.7	ED	49
0938.7 + 3957	open	110	7.8	Near	47
0939.1 + 4142	medium compact	69	1.3	ED	42
0939.4 + 4403	medium compact	123	2.3	VD	32
0941.3 + 4419	compact	182	2.1	VD	31
0941.6 + 4046	medium compact	138	2.1	ED	50
0942.1 + 4325	compact	98	1.5	VD	34
0942.5 + 3915	medium compact	95	2.3	VD	48
0943.2 + 4307	medium compact	161	5.1	MD	28
0943.8 + 4148	medium compact	76	1.4	ED	36
0944.1 + 4400	medium compact	124	1.6	ED	30
0944.5 + 3959	open	90	1.7	ED	46
0945.4 + 4151	medium compact	107	7.1	MD	35
0945.6 + 3856	open	58	1.8	VD	45
0945.6 + 4301	medium compact	90	1.4	ED	33
0946.6 + 4047	compact	73	1.2	ED	25
0946.9 + 4320	medium compact	103	1.6	ED	27
0947.1 + 3853	compact	52	0.3	ED	44
0948.0 + 4017	open	243	4.3	D	23
0948.5 + 3834	compact	60	0.6	ED	1
0949.0 + 4356	medium compact	67	1.0	ED	26
0949.5 + 3947	medium compact	58	0.8	ED	24
0949.6 + 4311	medium compact	71	1.0	VD	18
0949.8 + 4048	compact	91	1.1	ED	22
0949.9 + 4409	compact	77	1.1	ED	15
0951.9 + 4047	medium compact	98	1.2	ED	21
0952.4 + 4328	medium compact	64	1.0	ED	17
0952.5 + 4232	medium compact	96	1.6	ED	19
0952.7 + 4413	open	119	4.1	MD	16

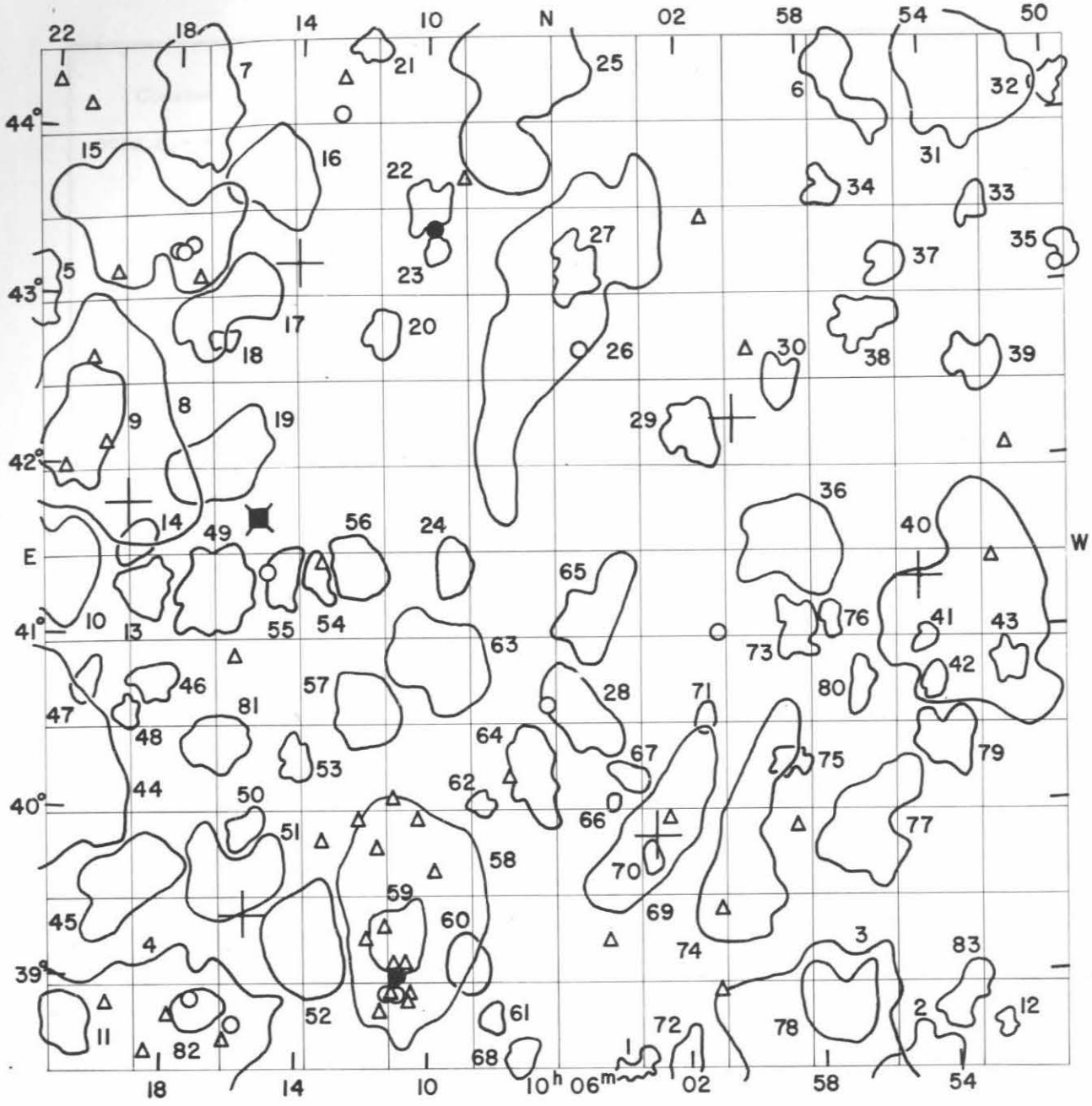
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0952.8 + 4102	medium compact	119	6.0	MD	20

Average number of galaxies per cluster = 102.3

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
9 20.5	+ 41 03		15.5		
9 20.5	+ 42 24		15.6		
9 21.2	+ 40 50		15.4		
9 21.6	+ 39 37		15.7		compact
9 21.7	+ 41 16	2860	14.8		
9 21.8	+ 38 34	2467*	14.8		
9 21.8	+ 40 37		15.2		
9 22.5	+ 40 52		15.6		
9 23.9	+ 42 47		15.5		very diffuse spiral
9 25.5	+ 38 45		15.2		
9 28.4	+ 41 32		15.7		
9 29.7	+ 42 17		15.7		
9 30.6	+ 40 13		15.5		
9 30.7	+ 44 29		15.1		
9 32.4	+ 39 21		15.7		
9 34.0	+ 41 52		15.7		
9 34.6	+ 43 19		15.0		
9 34.9	+ 42 57		15.6		
9 34.9	+ 43 12		15.7		
9 35.2	+ 43 44		14.7		
9 35.5	+ 43 24		15.3		diffuse spiral
9 35.7	+ 41 04		15.7		
9 37.4	+ 40 19		15.6		
9 38.4	+ 41 37		15.6		
9 40.0	+ 41 20		14.1		
9 40.2	+ 39 07		15.5		very compact
9 40.4	+ 39 39		15.5		
9 40.6	+ 42 42		15.3		very compact
9 40.8	+ 41 55		15.0		
9 40.8	+ 42 40		15.0		
9 40.8	+ 42 54		15.0		double system
9 42.3	+ 39 30		15.6		
9 43.9	+ 42 45		15.4		
9 44.7	+ 39 20		15.1		compact
9 44.7	+ 39 46		15.7		
9 45.5	+ 44 18	2998	13.3		m_H = 12.8 S
9 46.1	+ 44 15	3006	15.6		
9 46.2	+ 44 08		15.2		
9 46.4	+ 44 19	3008	15.4		
9 46.7	+ 39 05		15.5		double system, tidal effect
9 46.8	+ 39 09		15.3		very compact
9 47.4	+ 44 00		14.9		
9 49.0	+ 41 06		14.9		
9 49.7	+ 43 05		14.5		
9 51.7	+ 42 03		15.7		compact





FIELD No. 211

10^h06^m $+41^o30'$

Survey Plate No. 711

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
13700	9 54 37.8	+ 41 17 41	5.19
13807	10 00 21.1	+ 42 15 03	7.20
13865	10 02 55.7	+ 39 49 34	7.17
14113	10 14 05.4	+ 43 09 53	3.52
14138	10 15 36.6	+ 39 21 41	8.92
14232	10 19 21.5	+ 41 45 06	3.21

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0949.6 + 4311	medium compact	71	1.0	VD	35
0949.9 + 4409	compact	77	1.1	ED	32
0951.9 + 4047	medium compact	98	1.2	ED	43
0952.4 + 4328	medium compact	64	1.0	ED	33
0952.5 + 3841	compact	56	0.6	ED	12
0952.5 + 4232	medium compact	96	1.6	ED	39
0952.7 + 4413	open	119	4.1	MD	31
0952.8 + 4102	medium compact	119	6.0	MD	40
0953.7 + 3850	open	95	1.6	VD	83
0953.9 + 4022	compact	160	2.0	ED	79
0954.2 + 4042	medium compact	57	0.9	ED	42
0954.4 + 4057	compact	49	0.7	ED	41
0955.0 + 3815	open	107	3.6	D	2
0955.3 + 4308	medium compact	94	1.2	ED	37
0956.1 + 4248	medium compact	106	1.7	ED	38
0956.4 + 3730	open	347	14.4	Near	3
0956.5 + 3951	medium compact	85	3.1	VD	77
0956.6 + 4041	medium compact	90	1.2	ED	80
0956.9 + 4411	medium compact	84	2.3	D	6
0957.3 + 4335	compact	77	1.1	ED	34
0957.4 + 4105	compact	62	0.8	ED	76
0957.5 + 3850	medium compact	91	2.2	VD	78
0958.4 + 4101	open	77	1.6	VD	73
0958.4 + 4132	medium compact	104	3.0	D	36
0958.8 + 4015	medium compact	59	1.1	ED	75
0958.9 + 4228	medium compact	98	1.3	ED	30
1000.1 + 3946	open	95	4.0	MD	74
1001.4 + 4031	medium compact	52	0.8	ED	71
1001.7 + 4211	compact	156	1.8	ED	29
1002.1 + 3830	medium compact	98	1.3	VD	72
1002.9 + 3952	open	118	3.8	MD	69
1003.1 + 3943	medium compact	58	0.8	VD	70
1003.6 + 3829	medium compact	58	1.0	VD	1
1003.6 + 4011	medium compact	67	1.0	ED	67
1004.2 + 4002	compact	54	0.5	ED	66
1004.8 + 4108	medium compact	149	2.5	ED	65
1005.3 + 4034	medium compact	82	2.3	VD	28
1005.3 + 4310	medium compact	138	1.7	ED	27
1006.0 + 4255	open	167	6.3	MD	26
1006.7 + 4013	medium compact	210	2.1	ED	64
1007.0 + 4413	open	122	4.6	MD	25
1007.1 + 3834	medium compact	71	1.0	ED	68
1008.0 + 3847	medium compact	60	0.8	ED	61
1008.3 + 4002	medium compact	67	0.8	ED	62
1008.7 + 3905	open	61	1.6	ED	60
1009.2 + 4125	medium compact	110	1.4	ED	24
1009.6 + 4052	medium compact	108	3.1	VD	63
1009.7 + 4316	compact	56	0.8	ED	23
1010.0 + 4331	compact	126	1.4	ED	22
1010.5 + 3922	medium compact	160	6.0	Near	58
1010.8 + 3915	medium compact	134	2.1	ED	59
1011.5 + 4246	compact	111	1.2	ED	20
1011.9 + 4035	medium compact	162	2.2	VD	57
1011.9 + 4428	compact	87	1.1	ED	21
1012.2 + 4125	open	84	2.0	D	56
1013.5 + 4120	compact	131	1.2	ED	54
1013.7 + 3915	compact	412	3.0	VD	52

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1014.1 + 4016	medium compact	84	1.2	ED	53
1014.5 + 4120	open	70	1.4	VD	55
1014.9 + 4341	medium compact	148	2.8	D	16
1015.7 + 3953	compact	87	1.2	ED	50
1016.0 + 3936	medium compact	129	2.9	VD	51
1016.4 + 4257	open	83	2.8	D	17
1016.5 + 4022	medium compact	72	1.9	VD	81
1016.5 + 4200	medium compact	69	2.9	VD	19
1016.5 + 4243	compact	46	0.7	ED	18
1016.6 + 4116	compact	158	2.6	D	49
1017.0 + 3848	medium compact	62	1.5	VD	82
1017.5 + 4410	medium compact	104	3.3	VD	7
1018.4 + 4044	medium compact	97	1.3	ED	46
1018.8 + 4115	compact	133	1.6	VD	13
1019.1 + 3934	medium compact	110	2.9	D	45
1019.1 + 4131	medium compact	94	1.3	VD	14
1019.1 + 4325	open	105	4.8	MD	15
1019.3 + 4033	compact	75	0.9	ED	48
1019.8 + 3653	medium compact	456	18.3	Near	4
1020.4 + 4210	open	142	6.4	Near	8
1020.6 + 4043	medium compact	59	1.1	ED	47
1020.9 + 3843	medium compact	71	1.8	VD	11
1021.0 + 4211	open	100	3.0	D	9
1022.2 + 4123	medium compact	129	3.7	D	10
1022.9 + 4301	medium compact	210	2.1	ED	5
1026.9 + 4023	medium compact	570	13.0	Near	44

Average number of galaxies per cluster = 115.3

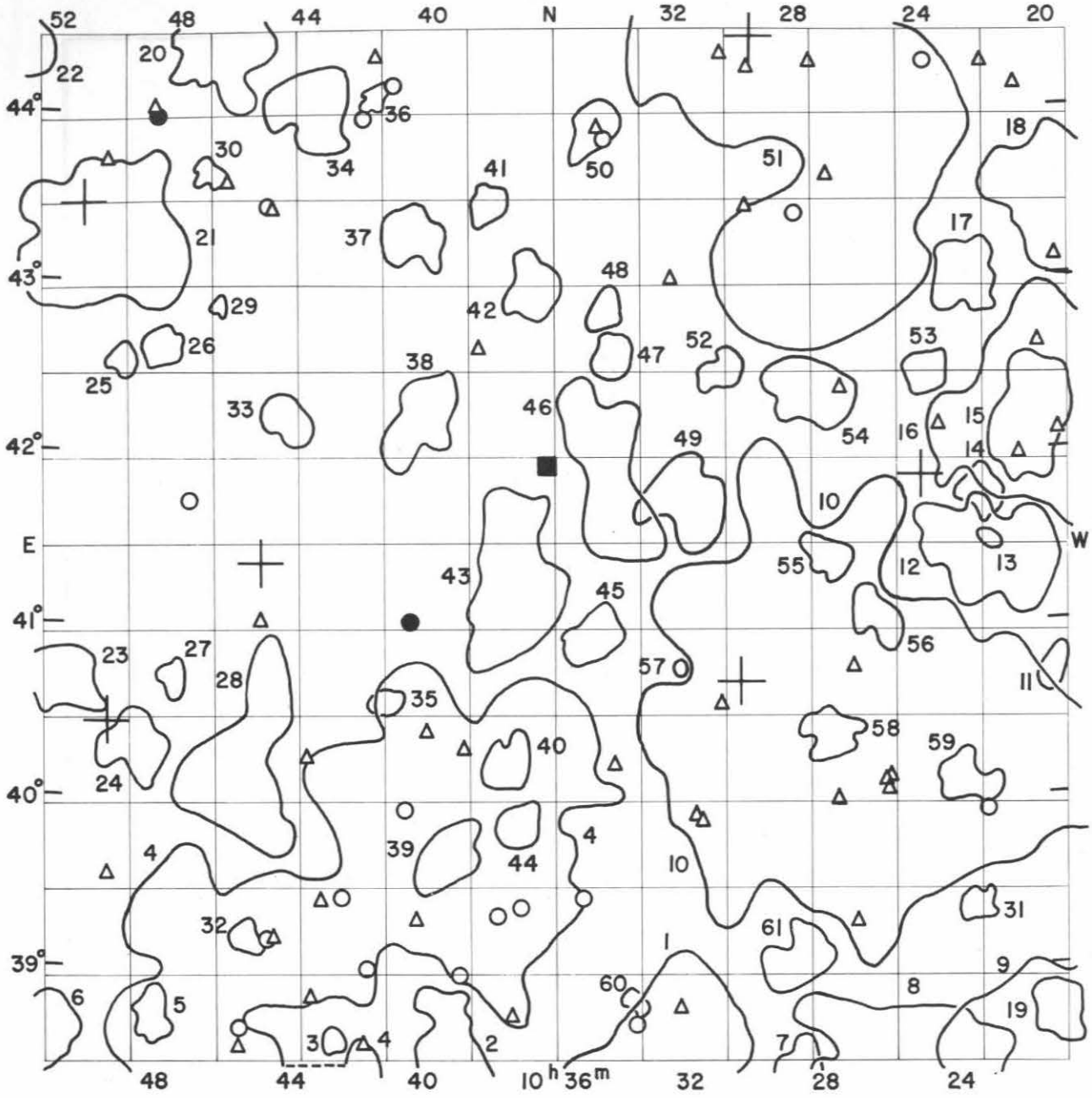
GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
9 49.7	+ 43 05		14.5		
9 51.7	+ 42 03		15.7		compact
9 52.3	+ 41 23		15.7		diffuse
9 58.6	+ 39 52		15.7		
9 59.8	+ 42 39		15.6		
10 00.9	+ 41 00	3104	14.2		
10 01.0	+ 38 55		15.7		
10 01.0	+ 39 23		15.7		
10 01.2	+ 43 25		15.6		
10 02.5	+ 39 56		15.7		
10 04.3	+ 39 13		15.5		
10 05.1	+ 42 40		14.9		
10 06.2	+ 40 37		14.6		
10 07.4	+ 40 11		15.5		
10 08.8	+ 43 40		15.7		
10 09.7	+ 39 38		15.5		
10 09.9	+ 43 24	598*	13.8		
10 10.3	+ 39 56		15.7		
10 10.4	+ 38 55	3150	15.4		
10 10.5	+ 38 53	3151	15.1		
10 10.6	+ 39 06	3152	15.5		
10 10.8	+ 39 01	3158	13.4	+7024	m_H = 12.7 E
10 10.9	+ 38 55	3159	14.9	+6950	
10 10.9	+ 39 06	3160	15.2		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
10 11.0	+ 38 55	3161	15.3	+6204	
10 11.0	+ 40 04		15.5		
10 11.1	+ 38 55	3163	14.4	+6245	
10 11.2	+ 39 18		15.5		
10 11.4	+ 38 49		15.6		
10 11.5	+ 39 45		15.4		
10 11.8	+ 39 14		15.2		
10 12.0	+ 39 55		15.6		
10 12.7	+ 44 14		15.4		
10 12.8	+ 44 02		14.7		
10 13.2	+ 39 48		15.5		
10 13.3	+ 41 25		15.3		
10 15.0	+ 41 22	3179	14.2		
10 15.3	+ 41 40	3184	10.4	+ 419	m_H = 11.8 Sc
10 15.9	+ 38 44		14.6		
10 16.0	+ 40 52		15.4		
10 16.1	+ 38 38		15.6		
10 17.1	+ 38 53		14.3		
10 17.3	+ 43 05		15.6		
10 17.5	+ 43 16	3202	14.2		
10 17.8	+ 38 47		15.6		
10 17.8	+ 43 13	3205	14.4		
10 18.0	+ 43 14	3207	14.3		
10 18.5	+ 38 34		15.7		
10 19.7	+ 38 50	3219	15.4		double system, faint bridge
10 19.9	+ 43 06		15.7		compact
10 20.1	+ 42 06		15.7		
10 20.6	+ 42 36		15.5		double system
10 21.0	+ 44 07		15.4		
10 21.4	+ 41 58		15.2		double system
10 22.0	+ 44 15		15.6		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3158	-	-	13.11	E3	13.2	E3	-	-
3159	-	-	-	-	-	E2	-	-
3161	-	-	-	-	-	E3	-	-
3163	-	-	-	-	-	E1	-	-
3184	11.2	Sc	10.66	Sc	10.2	Sc	10.28	Sc-



FIELD No. 212

10^h36^m $+41^o30'$

Survey Plate No. 690

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
14347	10 24 30.8	+ 41 51 26	5.80
14466	10 29 30.5	+ 44 26 22	7.32
14491	10 30 19.3	+ 40 41 00	4.84
14856	10 45 10.4	+ 41 22 26	6.85
14947	10 49 52.2	+ 40 26 15	7.38
14974	10 51 06.5	+ 43 27 24	4.84

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1019.1 + 4325	open	105	4.8	MD	18
1019.8 + 3653	medium compact	456	18.3	Near	9
1020.4 + 4210	open	142	6.4	Near	16
1020.6 + 4043	medium compact	59	1.1	ED	11
1020.9 + 3843	medium compact	71	1.8	VD	19
1021.0 + 4211	open	100	3.0	D	15
1022.2 + 4123	medium compact	129	3.7	D	12
1022.4 + 4130	compact	59	0.6	ED	13
1022.5 + 4146	medium compact	58	1.4	VD	14
1022.9 + 4301	medium compact	210	2.1	ED	17
1023.2 + 3921	compact	86	1.1	VD	31
1023.5 + 4005	medium compact	138	1.6	VD	59
1024.2 + 4228	medium compact	102	1.3	ED	53
1025.5 + 3803	medium compact	431	7.3	MD	8
1026.0 + 4102	medium compact	143	1.6	VD	56
1026.9 + 4023	medium compact	570	13.0	Near	10
1027.4 + 4123	medium compact	77	1.4	VD	55
1027.6 + 4022	compact	107	1.7	VD	58
1028.0 + 4223	medium compact	122	2.5	D	54
1028.2 + 4357	open	200	10.3	Near	51
1028.6 + 3903	medium compact	74	2.0	D	61
1028.7 + 3822	medium compact	85	1.8	VD	7
1030.7 + 4231	medium compact	108	1.3	ED	52
1031.8 + 4145	open	84	2.6	VD	49
1032.1 + 4046	compact	37	0.4	ED	57
1033.3 + 3804	open	198	7.0	Near	1
1033.6 + 3849	medium compact	57	0.8	ED	60
1034.0 + 4236	medium compact	103	1.3	VD	47
1034.2 + 4154	medium compact	135	3.7	D	46
1034.3 + 4251	compact	110	1.1	ED	48
1034.7 + 4357	open	101	1.6	ED	50
1034.8 + 4057	medium compact	186	1.8	ED	45
1036.7 + 4300	medium compact	79	1.9	VD	42
1037.1 + 3952	compact	104	1.4	ED	44
1037.2 + 4117	open	100	4.0	D	43
1037.6 + 4013	medium compact	103	1.7	VD	40
1038.1 + 4330	compact	69	1.2	ED	41
1038.5 + 3802	open	189	5.2	MD	2
1039.4 + 3941	compact	117	2.1	D	39
1040.2 + 4213	medium compact	100	2.4	VD	38
1040.6 + 4318	medium compact	158	2.0	ED	37
1041.3 + 4035	compact	64	0.9	ED	35
1041.9 + 4406	medium compact	62	0.8	ED	36
1042.4 + 3910	medium compact	344	12.7	Near	4
1042.7 + 3836	compact	79	0.6	ED	3
1044.0 + 4403	medium compact	129	2.6	VD	34
1044.6 + 4213	medium compact	90	1.5	ED	33
1045.5 + 3911	compact	83	1.0	ED	32
1045.6 + 4008	open	88	4.7	D	28
1046.7 + 4430	medium compact	159	3.7	VD	20
1046.8 + 4253	compact	51	0.5	ED	29
1047.2 + 4339	medium compact	58	0.9	ED	30
1047.9 + 4042	medium compact	82	1.0	ED	27
1048.1 + 3844	medium compact	108	1.4	VD	5
1048.6 + 4239	compact	163	1.2	ED	26
1049.0 + 4019	compact	165	2.1	VD	24
1049.8 + 4234	medium compact	69	0.9	ED	25

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1050.6 + 4316	medium compact	145	5.3	D	21
1051.2 + 3838	compact	159	2.2	D	6
1051.4 + 4041	medium compact	141	2.4	D	23
1055.6 + 4432	open	126	5.6	MD	22

Average number of galaxies per cluster = 131.6

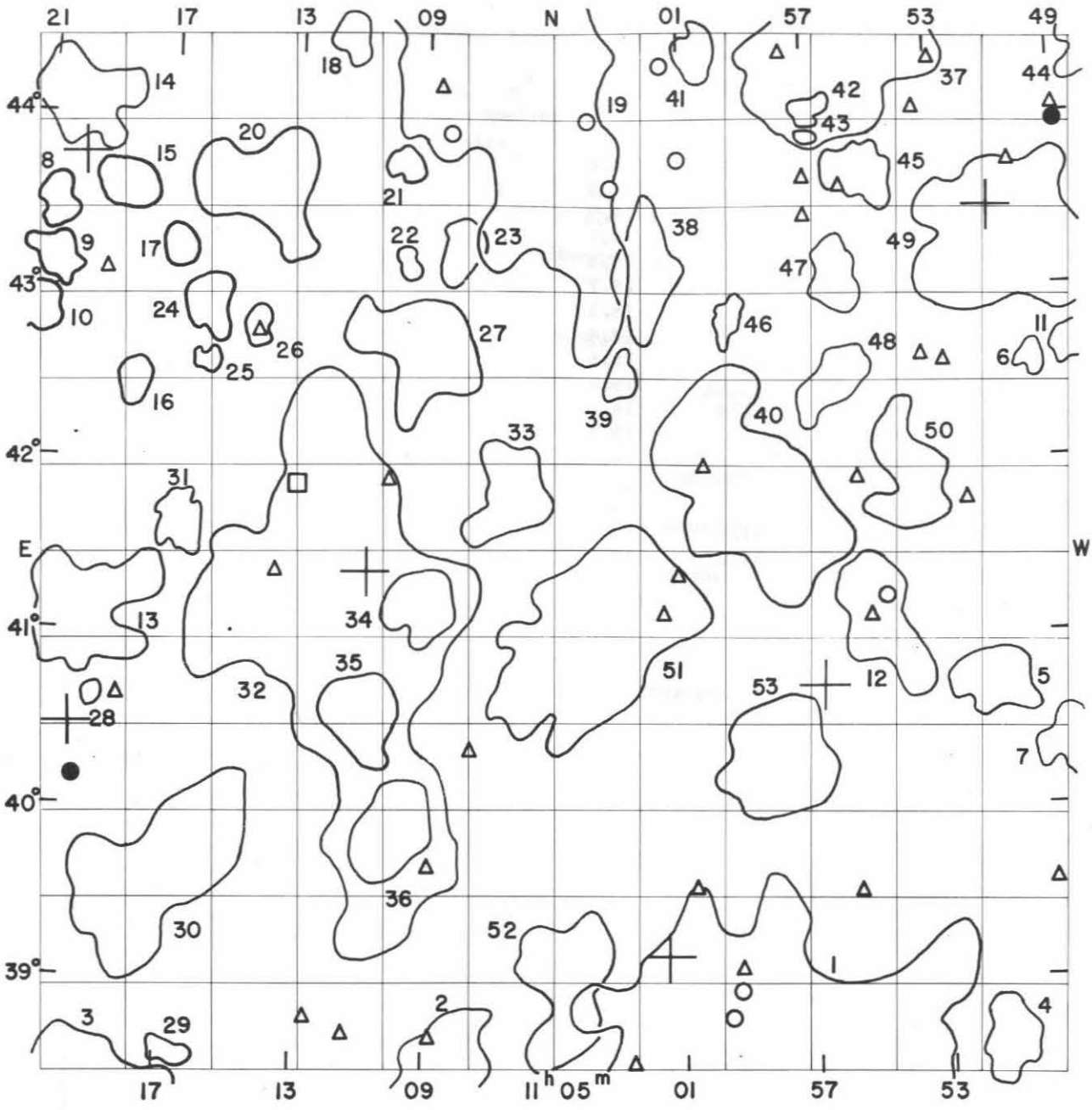
GALAXIES

Position α 1950 δ	NGC IC*	m_p	V_s km/sec	Remarks
h m o '				
10 19.9 + 43 06		15.7		compact
10 20.1 + 42 06		15.7		
10 20.6 + 42 36		15.5		double system
10 21.0 + 44 07		15.4		
10 21.4 + 41 58		15.2		double system
10 22.0 + 44 15		15.6		
10 22.8 + 39 55	3237	14.2		
10 23.9 + 42 09		15.4		
10 23.9 + 44 15		15.0		
10 25.8 + 40 02		15.7		
10 25.8 + 40 06		15.5		
10 25.9 + 40 05		15.6		
10 26.8 + 40 45		15.3		
10 26.9 + 39 16		15.4		
10 27.0 + 42 23		15.5		
10 27.2 + 43 37		15.4		
10 27.4 + 39 59		15.7		
10 27.7 + 44 15		15.2		
10 28.3 + 43 23		14.7		
10 29.7 + 44 14		15.2		
10 29.9 + 43 25		15.7		
10 30.5 + 44 19		15.3		double system
10 30.9 + 40 33		15.1		
10 31.6 + 39 53		15.6		compact
10 31.7 + 39 54		15.6		compact
10 32.2 + 43 01		15.5		
10 32.3 + 38 46		15.5		
10 33.6 + 38 42		14.5		
10 34.1 + 40 13		15.7		
10 34.3 + 43 51		14.6		
10 34.5 + 43 55		15.7		
10 35.1 + 39 26		14.9		
10 36.2 + 41 57	3319	12.0	+ 826	m_H = 12.3 S
10 37.0 + 39 23		14.7		
10 37.4 + 38 45		15.2		
10 37.8 + 39 20		14.6		double system, bridge
10 38.4 + 42 38		15.5		
10 38.8 + 40 18		15.1		
10 38.9 + 38 59		14.5		triple system
10 40.0 + 40 24		15.2		
10 40.2 + 39 18		15.1		
10 40.5 + 41 03		14.0		
10 40.6 + 39 57		14.8		
10 41.2 + 44 10		14.8		
10 41.7 + 39 01		15.0		
10 41.8 + 38 34		15.3		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
10 41.8	+44 19		15.7		
10 42.2	+43 58		14.9		
10 42.5	+39 26		14.9		double system, faint bridge
10 43.1	+39 25		15.7		
10 43.4	+38 50		15.5		double system
10 43.7	+40 15		15.7		
10 44.5	+39 12		15.1		
10 44.8	+39 12		14.4		double system, connected
10 45.0	+43 24		15.6		
10 45.1	+41 02		15.6		
10 45.1	+43 26	3374	14.6		
10 45.6	+38 33		15.6		
10 45.6	+38 40		14.7		
10 46.5	+43 34		15.6		
10 47.5	+41 44		14.5		double system, halo
10 48.8	+43 59	3415	13.2		m_H = 13.1
10 48.9	+44 02	3416	15.2		
10 49.7	+39 32		15.7		
10 50.4	+43 43		15.3		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3319	-	-	-	-	-	SBc	11.67	Sc+



FIELD No. 213

$11^h05^m \quad +41^\circ30'$

Survey Plate No. 1349

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
14974	10 51 06.5	+ 43 27 24	4.84
15087	10 56 40.4	+ 40 41 52	5.14
15213	11 01 31.3	+ 39 08 17	7.22
15425	11 10 54.3	+ 41 21 39	6.49
15622	11 19 58.8	+ 40 26 59	6.63
15625	11 20 05.4	+ 43 45 26	5.06

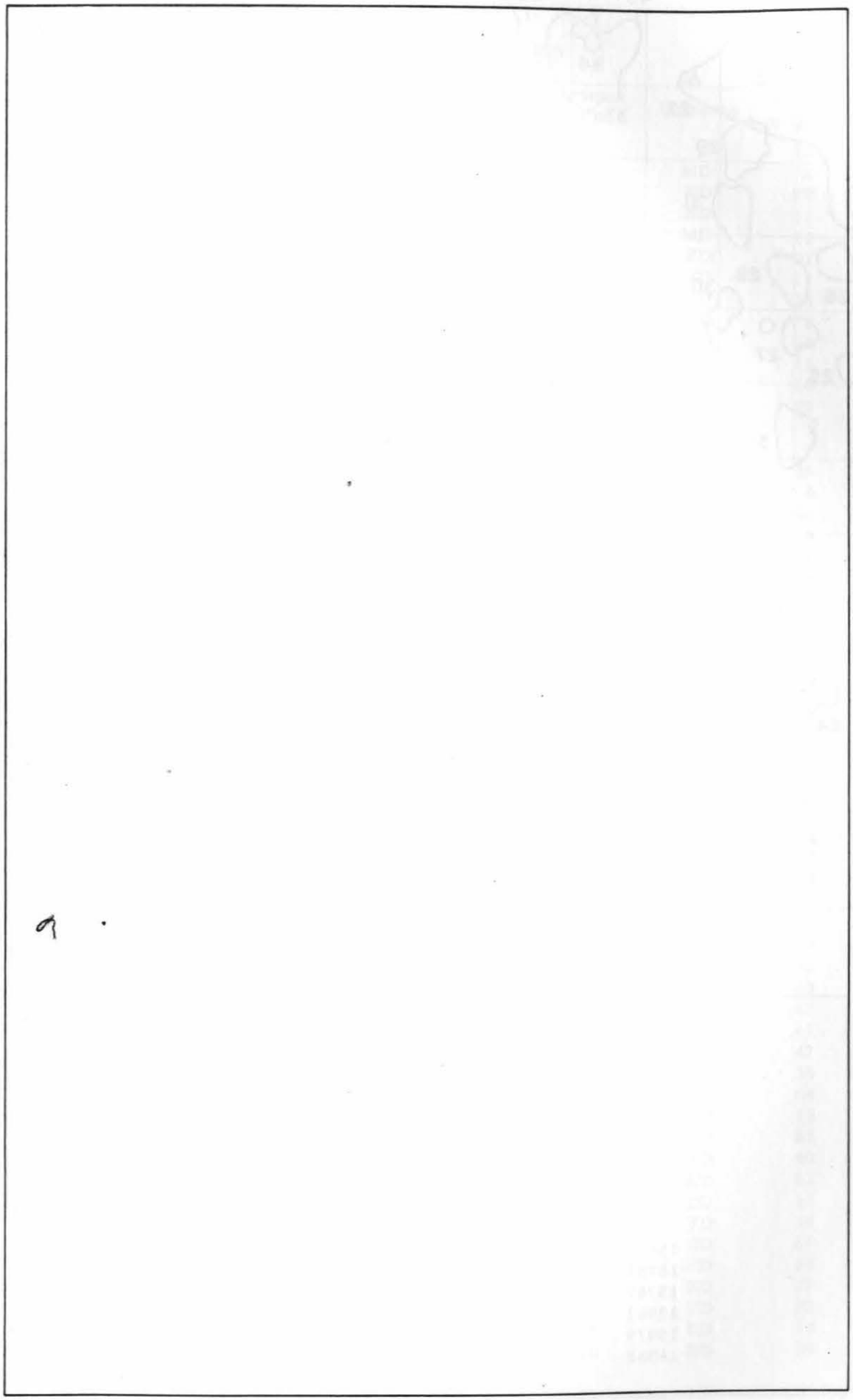
CLUSTERS OF GALAXIES

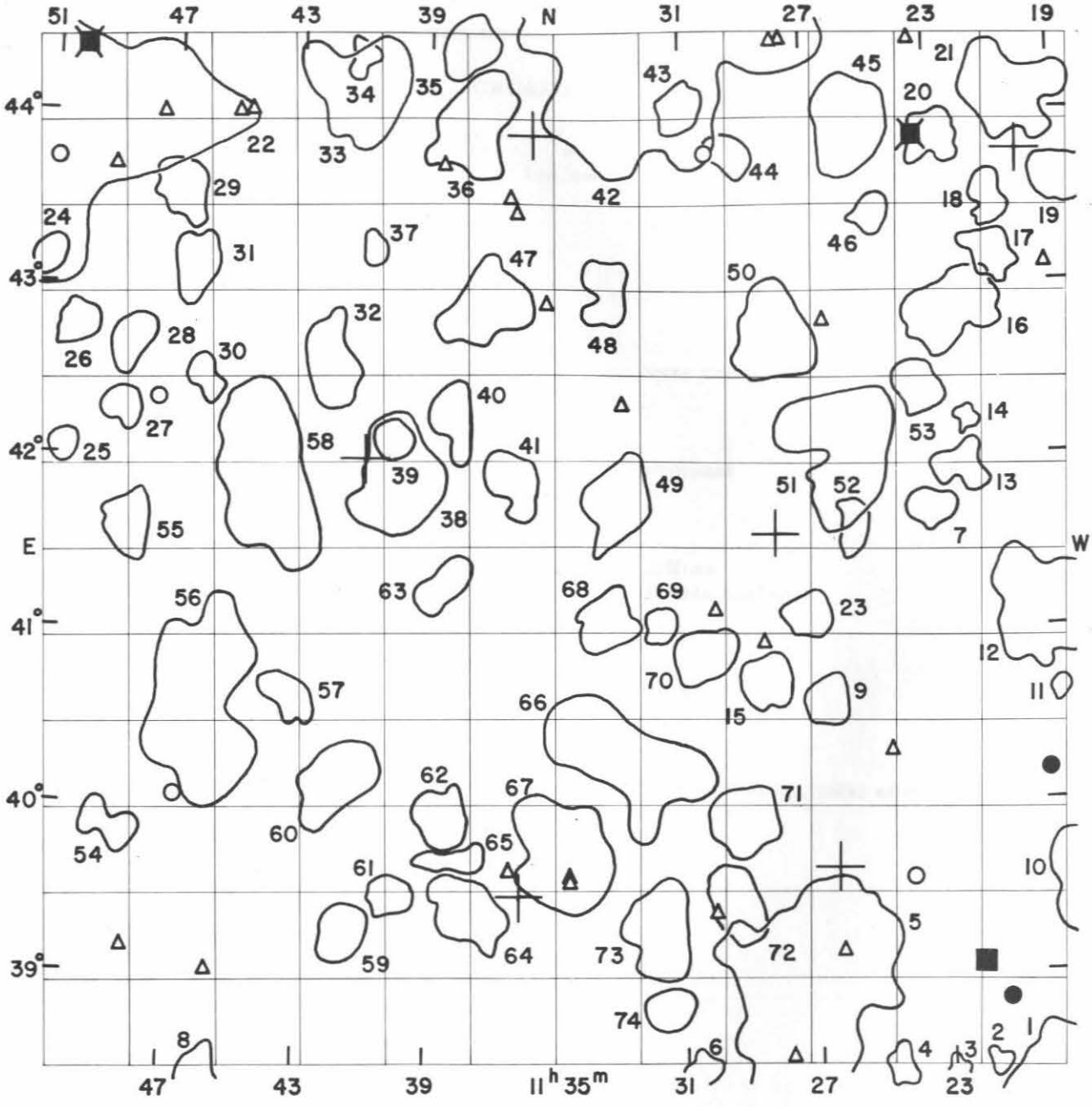
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1046.7 + 4430	medium compact	159	3.7	VD	44
1048.6 + 4239	compact	163	1.2	ED	11
1049.0 + 4019	compact	165	2.1	VD	7
1049.8 + 4234	medium compact	69	0.9	ED	6
1050.6 + 4316	medium compact	145	5.3	D	49
1051.2 + 3838	compact	159	2.2	D	4
1051.4 + 4041	medium compact	141	2.4	D	5
1053.7 + 4155	medium compact	67	2.9	VD	50
1054.9 + 4104	compact	127	3.2	D	12
1055.2 + 4340	open	132	2.0	ED	45
1055.6 + 4432	open	126	5.6	MD	37
1056.0 + 4305	medium compact	127	1.8	ED	47
1056.2 + 4228	medium compact	147	2.0	ED	48
1056.8 + 4353	compact	52	0.5	ED	43
1056.8 + 4402	compact	71	1.0	ED	42
1057.2 + 3804	open	535	13.2	Near	1
1058.0 + 4016	open	80	3.6	VD	53
1058.8 + 4149	medium compact	170	5.8	D	40
1059.5 + 4250	medium compact	69	1.1	ED	46
1100.4 + 4423	compact	106	1.6	ED	41
1102.0 + 4307	open	78	2.8	D	38
1102.9 + 4230	medium compact	93	1.2	ED	39
1103.5 + 4100	open	132	6.0	MD	51
1104.5 + 3857	open	87	3.4	D	52
1106.4 + 4150	medium compact	88	2.7	D	33
1106.7 + 4414	medium compact	332	9.2	MD	19
1107.9 + 4314	compact	111	1.6	ED	23
1109.1 + 3806	compact	206	4.7	Near	2
1109.1 + 4239	medium compact	120	3.6	D	27
1109.2 + 4111	medium compact	83	2.2	D	34
1109.6 + 4309	medium compact	79	0.8	ED	22
1109.7 + 4344	compact	85	1.0	ED	21
1110.0 + 3953	medium compact	94	2.7	MD	36
1111.0 + 4032	medium compact	104	2.5	MD	35
1111.3 + 4051	open	470	10.3	MD	32
1111.6 + 4429	medium compact	68	1.4	ED	18
1114.3 + 4335	open	90	3.5	D	20
1114.4 + 4246	compact	84	1.0	ED	26
1115.9 + 4254	medium compact	116	1.7	ED	24
1116.0 + 4235	compact	63	0.7	ED	25
1116.6 + 3833	medium compact	46	1.1	ED	29
1116.7 + 4138	medium compact	132	1.7	ED	31
1117.0 + 4315	compact	85	1.2	ED	17
1117.2 + 3935	open	41	5.1	D	30
1118.3 + 4227	compact	105	1.3	ED	16
1118.8 + 3812	medium compact	161	4.9	MD	3
1118.8 + 4335	medium compact	119	1.8	ED	15
1119.4 + 4038	compact	67	0.6	ED	28
1119.5 + 4105	open	132	3.6	MD	13
1120.1 + 4406	open	86	2.8	ED	14
1121.0 + 4310	medium compact	82	1.6	VD	9
1121.0 + 4329	medium compact	141	1.4	ED	8
1122.3 + 4250	medium compact	259	2.7	VD	10

Average number of galaxies per cluster = 129.2

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
10 48.8	+ 43 59	3415	13.2		m_H = 13.1
10 48.9	+ 44 02	3416	15.2		
10 49.7	+ 39 32		15.7		
10 50.4	+ 43 43		15.3		
10 52.0	+ 41 46		15.7		
10 52.6	+ 42 34		15.5		
10 52.9	+ 44 19		15.2		very compact
10 53.3	+ 42 36		15.4		
10 53.5	+ 44 01		15.2		
10 54.6	+ 41 13	3468	14.2		
10 55.1	+ 41 06		15.6		compact
10 55.5	+ 41 55		15.7		
10 55.6	+ 39 30		15.7		
10 55.9	+ 43 35		15.5		
10 57.0	+ 43 25		15.7		diffuse
10 57.0	+ 43 38		15.7		double nucleus
10 57.8	+ 44 21		15.6		
10 59.2	+ 39 03	2616*	15.6		
10 59.3	+ 38 56	2617*	15.0		
10 59.5	+ 38 46	2620*	14.9		compact
11 00.3	+ 41 58		15.1		
11 00.6	+ 39 31		15.5		
11 01.1	+ 41 20		15.6		
11 01.1	+ 43 45		14.6		double system, tidal effect
11 01.6	+ 41 07		15.5		compact
11 01.6	+ 44 18		14.7		
11 02.5	+ 38 30		15.4		
11 03.2	+ 43 36		14.6		
11 04.0	+ 44 00		14.4		
11 07.6	+ 40 20		15.7		
11 08.3	+ 43 54	674*	14.5		
11 08.7	+ 38 40		15.6		
11 08.7	+ 44 10		15.2		
11 08.8	+ 39 39		15.4		
11 10.2	+ 41 54		15.7		
11 11.4	+ 38 41		15.7		
11 12.5	+ 38 46		15.6		
11 13.0	+ 41 52	3600	12.6		
11 13.7	+ 41 21		15.3		
11 14.4	+ 42 44		15.4		peculiar streamers
11 18.5	+ 40 37		15.5		
11 19.3	+ 43 05		15.3		
11 19.8	+ 40 09	3648	13.5		





FIELD No. 214

11^h35^m $+41^o30'$

Survey Plate No. 719

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
15625	11 20 05.4	+ 43 45 26	5.06
15751	11 26 22.9	+ 39 36 44	5.26
15787	11 28 07.9	+ 41 33 51	6.99
15962	11 35 41.1	+ 43 54 10	5.52
15979	11 36 10.8	+ 39 26 58	7.42
16088	11 40 58.7	+ 42 00 00	6.81

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1117.2 + 3935	open	41	5.1	D	10
1118.8 + 3812	medium compact	161	4.9	MD	1
1118.8 + 4335	medium compact	119	1.8	ED	19
1119.4 + 4038	compact	67	0.6	ED	11
1119.5 + 4105	open	132	3.6	MD	12
1120.1 + 4406	open	86	2.8	ED	21
1121.0 + 4310	medium compact	82	1.6	VD	17
1121.0 + 4329	medium compact	141	1.4	ED	18
1121.6 + 3827	medium compact	68	0.6	ED	2
1121.9 + 4212	medium compact	66	0.6	ED	14
1122.1 + 4156	medium compact	71	1.5	VD	13
1122.3 + 4250	medium compact	259	2.7	VD	16
1122.8 + 4351	open	99	1.7	VD	20
1122.9 + 3811	open	93	1.7	VD	3
1123.1 + 4142	compact	110	1.3	VD	7
1123.5 + 4224	compact	65	1.5	VD	53
1124.6 + 3826	medium compact	103	0.9	ED	4
1124.8 + 4325	medium compact	90	1.1	ED	46
1125.5 + 4356	compact	107	2.8	VD	45
1125.6 + 4136	compact	115	1.3	ED	52
1125.9 + 4201	medium compact	96	3.7	MD	51
1126.6 + 4035	compact	55	1.4	ED	9
1127.1 + 3850	medium compact	659	6.1	D	5
1127.1 + 4105	medium compact	72	1.4	ED	23
1128.0 + 4243	medium compact	87	2.7	VD	50
1128.5 + 4042	medium compact	88	1.6	ED	15
1129.1 + 3955	medium compact	131	2.2	VD	71
1129.4 + 3925	compact	190	2.1	ED	72
1129.4 + 4346	medium compact	67	1.3	ED	44
1130.4 + 4052	medium compact	60	1.8	VD	70
1130.9 + 3810	medium compact	142	2.7	D	6
1131.0 + 4403	medium compact	77	1.4	ED	43
1131.5 + 3848	compact	66	1.4	VD	74
1131.6 + 4421	open	113	7.3	Near	42
1131.7 + 4102	compact	55	1.0	ED	69
1131.8 + 3916	medium compact	75	2.5	D	73
1132.6 + 4015	compact	560	4.0	ED	66
1133.0 + 4145	medium compact	110	2.4	VD	49
1133.2 + 4259	medium compact	128	1.7	ED	48
1133.3 + 4104	compact	73	1.8	VD	68
1134.6 + 3942	medium compact	109	3.4	D	67
1136.3 + 4152	medium compact	120	1.8	ED	41
1137.1 + 4255	open	118	2.6	D	47
1137.5 + 4356	medium compact	104	2.8	MD	36
1137.6 + 3922	compact	81	2.2	ED	64
1137.8 + 4425	medium compact	92	1.8	VD	35
1138.1 + 3941	medium compact	53	1.1	VD	65
1138.1 + 4215	medium compact	96	1.7	ED	40
1138.4 + 3956	compact	119	1.8	ED	62
1138.5 + 4116	medium compact	67	1.5	ED	63
1139.9 + 4153	medium compact	97	3.2	VD	38
1140.0 + 3928	compact	68	1.3	ED	61
1140.0 + 4208	compact	86	1.2	ED	39
1140.7 + 4313	compact	57	0.8	ED	37
1141.2 + 4409	medium compact	135	3.2	VD	33
1141.2 + 4420	compact	68	0.9	ED	34
1141.5 + 3915	open	78	1.6	ED	59

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1141.7 + 4008	compact	182	2.4	VD	60
1142.0 + 4232	medium compact	73	2.3	VD	32
1143.2 + 4037	compact	108	1.5	ED	57
1144.0 + 4152	medium compact	158	4.2	VD	58
1145.7 + 3821	medium compact	81	1.8	VD	8
1145.9 + 4034	medium compact	95	4.6	D	56
1146.0 + 4227	medium compact	75	1.1	ED	30
1146.3 + 4306	medium compact	115	1.7	ED	31
1146.8 + 4332	medium compact	129	1.7	ED	29
1148.3 + 4136	medium compact	89	1.7	ED	55
1148.4 + 4239	compact	171	1.5	ED	28
1148.6 + 4216	compact	73	1.2	ED	27
1148.8 + 3952	medium compact	96	1.4	ED	54
1150.1 + 4245	compact	102	1.4	ED	26
1150.5 + 4202	compact	63	0.9	ED	25
1151.1 + 4309	compact	109	1.1	ED	24
1157.2 + 4332	open	463	15.5	Near	22

Average number of galaxies per cluster = 117.7

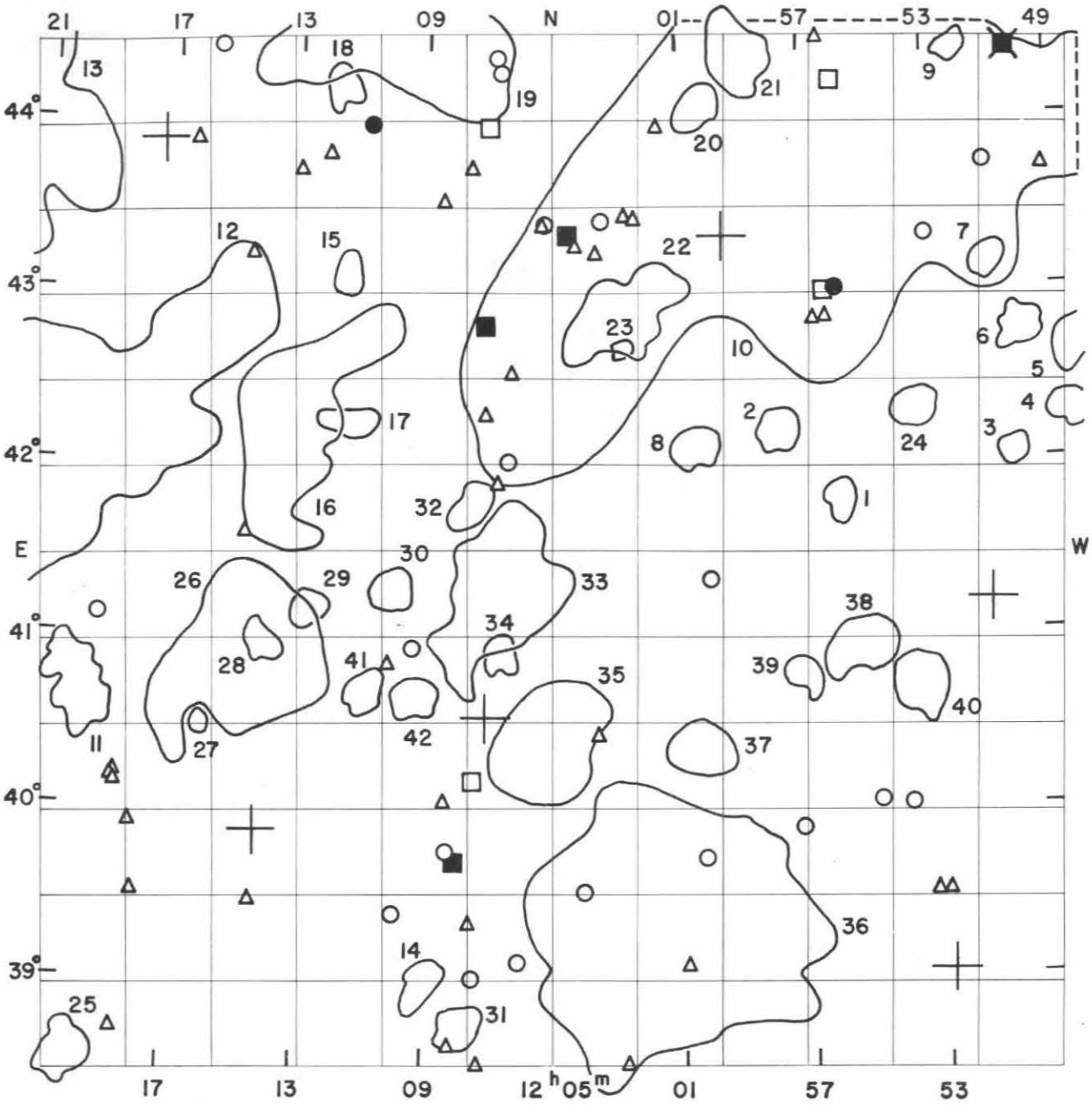
GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
11 19.3	+ 43 05		15.3		
11 19.8	+ 40 09	3648	13.5		
11 21.3	+ 38 50	3658	13.3		
11 22.0	+ 39 02	3665	11.6	+2002	m_H = 12.3 Sa
11 23.4	+ 43 52	3675	10.4	+ 688	m_H = 11.8 Sb
11 23.5	+ 44 26		15.5		
11 24.0	+ 39 32		15.0		compact
11 24.6	+ 40 16		15.6		
11 26.3	+ 39 07	2861*	15.5		
11 26.5	+ 42 47		15.7		
11 27.6	+ 44 26		15.4		double system
11 27.8	+ 38 31		15.5		compact
11 28.0	+ 44 26		15.3		
11 28.5	+ 40 55		15.7		
11 30.0	+ 41 07		15.4		
11 30.1	+ 39 21		15.7		extremely diffuse spiral
11 30.2	+ 43 47		14.9		
11 32.9	+ 42 18		15.7		
11 34.6	+ 39 32		15.6		
11 34.6	+ 39 33		15.6		
11 35.2	+ 42 55		15.7		
11 36.2	+ 43 26		15.4		
11 36.4	+ 43 31		15.3		
11 36.5	+ 39 36		15.2		
11 38.5	+ 43 43		15.5		
11 44.7	+ 44 02		15.4		
11 45.1	+ 44 01		15.2		
11 45.6	+ 39 01		15.7		diffuse
11 46.7	+ 40 03		14.8		
11 47.6	+ 42 20		14.2		
11 47.6	+ 44 00		15.1		
11 48.2	+ 39 09		15.1		diffuse + disrupted
11 49.2	+ 43 42		15.6		

Position α 1950 h m	Position δ′ o ′	NGC IC*	m_p	V_s km/sec	Remarks
11 50.2	+44 23	3938	11.0	+ 874	m_H = 11.6 Sb
11 51.0	+43 44		14.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3665	-	-	11.94	S0	11.9	S0	-	-
3675	10.5	-	-	-	10.7	Sb	-	-
3938	11.0	Sb	-	-	-	Sc	10.79	Sc-



FIELD No. 215

12^h05^m $+41^\circ30'$

Survey Plate No. 1367

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
16269	11 51 15.0	+ 41 11 31	6.70
16300	11 52 47.2	+ 39 02 08	7.07
16445	11 59 34.8	+ 43 19 23	5.07
16607	12 07 07.0	+ 40 31 51	7.40
16758	12 14 12.2	+ 39 52 12	7.12
16819	12 17 30.1	+ 43 53 11	7.60

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1148.4 + 4239	compact	171	1.5	ED	5
1148.6 + 4216	compact	73	1.2	ED	4
1150.1 + 4245	compact	102	1.4	ED	6
1150.5 + 4202	compact	63	0.9	ED	3
1151.1 + 4309	compact	109	1.1	ED	7
1152.0 + 4425	medium compact	83	0.9	ED	9
1153.5 + 4041	medium compact	114	1.9	ED	40
1153.5 + 4218	compact	71	1.3	ED	24
1155.3 + 4055	compact	93	2.0	ED	38
1155.9 + 4146	medium compact	54	1.1	ED	1
1157.1 + 4045	medium compact	59	1.1	ED	39
1157.2 + 4332	open	463	15.5	Near	10
1157.8 + 4211	medium compact	60	1.3	ED	2
1159.0 + 4424	medium compact	192	2.2	ED	21
1200.4 + 4020	medium compact	90	1.9	ED	37
1200.4 + 4404	compact	88	1.4	ED	20
1200.5 + 4205	compact	83	1.4	ED	8
1201.5 + 3916	medium compact	210	8.9	Near	36
1202.8 + 4240	compact	35	0.6	ED	23
1202.9 + 4252	medium compact	101	3.1	MD	22
1205.1 + 4022	medium compact	149	3.7	ED	35
1206.6 + 4053	compact	65	1.1	ED	34
1206.6 + 4115	medium compact	120	4.4	MD	33
1207.6 + 4145	medium compact	60	1.3	VD	32
1207.9 + 3843	compact	56	1.4	ED	31
1209.0 + 3857	medium compact	63	1.3	ED	14
1209.3 + 4039	compact	70	1.4	ED	42
1209.7 + 4429	open	120	5.7	MD	19
1210.0 + 4116	compact	46	1.3	ED	30
1210.8 + 4040	compact	71	1.3	ED	41
1211.3 + 4214	medium compact	62	1.3	VD	17
1211.5 + 4305	compact	54	1.1	ED	15
1211.8 + 4411	compact	68	1.2	ED	18
1212.6 + 4110	medium compact	51	1.1	ED	29
1213.0 + 4213	open	109	5.2	D	16
1214.1 + 4058	compact	60	1.1	ED	28
1214.7 + 4052	open	150	5.3	MD	26
1216.0 + 4030	compact	48	0.6	ED	27
1219.7 + 3833	medium compact	67	1.6	VD	25
1219.7 + 4042	medium compact	230	2.3	ED	11
1219.9 + 4206	open	202	8.7	MD	12
1221.9 + 4347	open	118	5.6	MD	13

Average number of galaxies per cluster = 103.6

GALAXIES

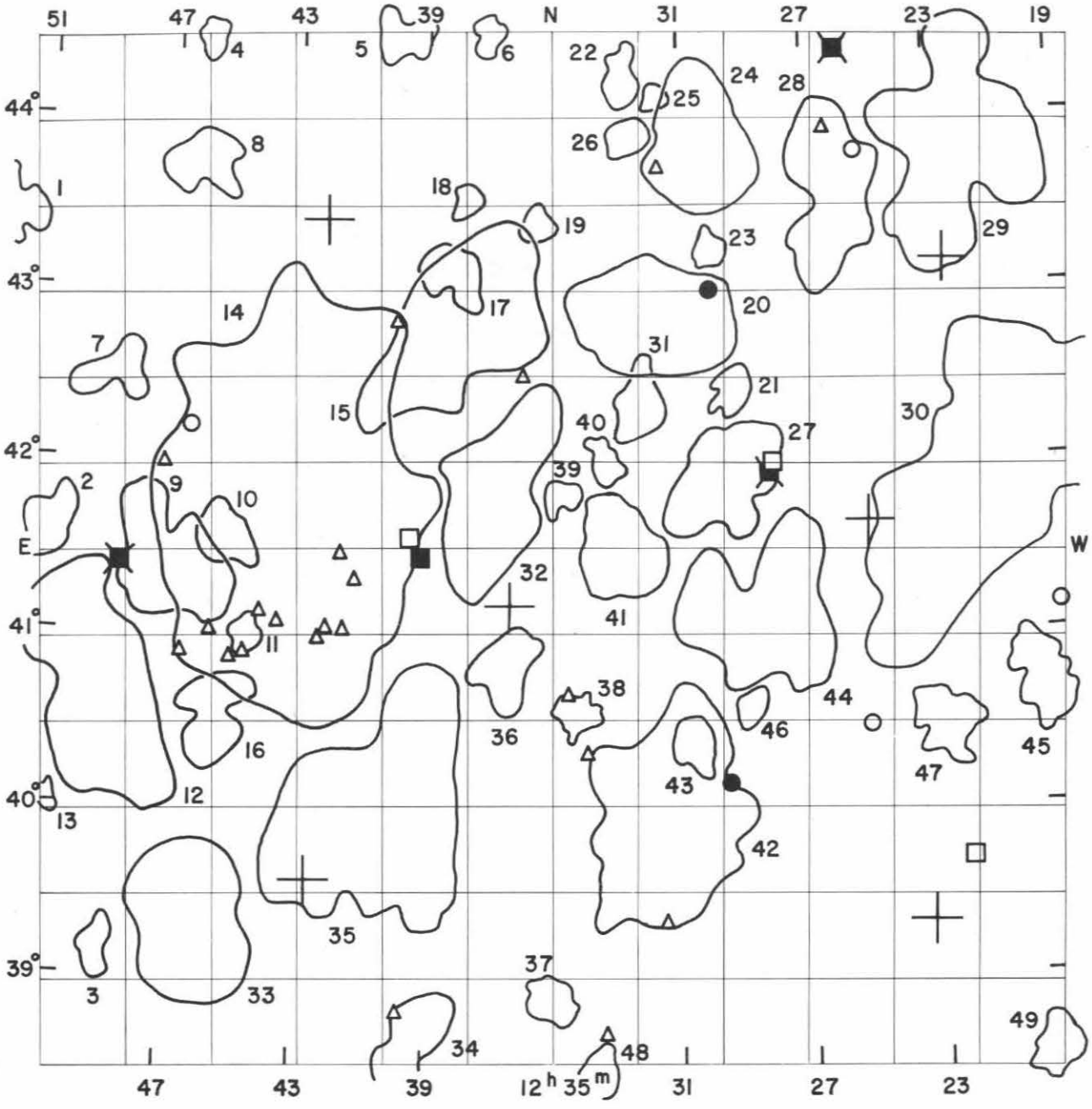
Position α 1950 h m	δ ° ′	NGC IC*	m_p	V_s km/sec	Remarks
11 49.2	+ 43 42		15.6		
11 50.2	+ 44 23	3938	11.0	+ 874	m_H = 11.6 Sb
11 51.0	+ 43 44		14.7		
11 52.8	+ 39 30		15.7		very diffuse spiral
11 53.0	+ 43 19		14.4		
11 53.2	+ 39 30		15.6		diffuse

Position α 1950 δ	NGC IC*	m_p	V_s km/sec	Remarks
h m o '				
11 53.8 +40 01		14.7		
11 54.8 +40 02		14.9		
11 56.0 +43 00	749*	13.4		m_H = 13.2
11 56.0 +44 13	4013	12.4		m_H = 12.7 Sc
11 56.3 +42 50	751*	15.1		
11 56.3 +42 59	750*	12.7		m_H = 13.0
11 56.4 +44 28		15.7		
11 56.7 +42 50	752*	15.2		
11 57.3 +39 52		14.6		
12 00.0 +41 20		14.4		
12 00.3 +39 43		14.7		
12 00.8 +39 05	2987*	15.3		
12 01.7 +43 57		15.4		compact
12 02.4 +43 25		15.7		
12 02.6 +38 31		15.3		
12 02.7 +43 26		15.2		
12 03.4 +43 25		14.8		
12 03.5 +40 26		15.2		
12 03.6 +43 14		15.6		
12 04.0 +39 30		14.5		
12 04.3 +43 16	4109	15.1		
12 04.5 +43 20	4111	11.4	+ 827	m_H = 11.6 E
12 05.2 +43 24	4117	14.3		
12 05.3 +43 23	4118	15.7		
12 06.0 +39 06	3014*	14.4		
12 06.3 +42 31		15.5		compact
12 06.4 +42 01		14.3		
12 06.6 +44 16	4135	14.8		
12 06.7 +41 53		15.2		compact
12 06.8 +44 21	4137	15.0		
12 07.0 +43 57	4138	12.1	+ 1039	m_H = 12.2 Sa
12 07.1 +42 17		15.5		
12 07.1 +42 48	4143	12.0	+ 784	m_H = 12.2 Sa
12 07.3 +38 30		15.4		
12 07.5 +39 00	3022*	14.6		compact
12 07.5 +40 10	4145	12.2		m_H = 12.2 Sc
12 07.5 +43 43		15.5		
12 07.6 +39 20		15.6		diffuse
12 08.0 +39 41	4151	11.2	+ 947	m_H = 11.2 Sb
12 08.2 +38 37		15.3		
12 08.3 +39 45	4156	14.3		
12 08.4 +40 02		15.3		double nebula, connected
12 08.5 +43 31		15.6		
12 09.4 +40 56		15.0		double system
12 09.9 +39 23		14.6		
12 10.1 +40 50		15.5		diffuse spiral
12 10.7 +43 58	4183	13.5		
12 12.1 +43 48		15.3		
12 13.0 +43 42		15.4		
12 14.3 +39 28		15.7		
12 14.6 +43 13		15.4		compact
12 14.7 +41 35		15.7		
12 15.7 +44 27		14.2		double system, faint bridge
12 16.4 +43 53		15.5		
12 17.8 +39 30		15.6		
12 18.0 +39 55		15.5		compact
12 18.4 +38 42		15.4		
12 18.5 +40 08		15.1		
12 18.5 +40 11		15.4		

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
12 18.6	+40 10		15.2		
12 19.1	+41 08		14.2		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3938	11.0	Sb	-	-	-	Sc	10.79	Sc-
4013	11.6	-	-	-	-	-	-	-
4111	-	-	-	-	11.6	S0	11.63	S0
4138	-	-	-	-	12.4	Sa	-	-
4143	-	-	-	-	12.0	SB0	-	-
4151	-	-	-	-	11.2	Sa	-	-



FIELD No. 216

12^h35^m $+41^\circ30'$

Survey Plate No. 115

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ′ ″	
16929	12 22 30.2	+ 43 07 52	7.03
16948	12 23 23.4	+ 39 17 45	5.22
16978	12 25 06.2	+ 41 37 54	6.85
17221	12 36 22.1	+ 41 08 58	6.29
17332	12 42 11.9	+ 43 24 00	7.19
17337	12 42 37.7	+ 39 33 01	5.97

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1219.7 + 3833	medium compact	67	1.6	VD	49
1219.7 + 4042	medium compact	230	2.3	ED	45
1219.9 + 4206	open	202	8.7	MD	30
1221.9 + 4347	open	118	5.6	MD	29
1222.7 + 4026	medium compact	109	2.1	VD	47
1226.0 + 4334	open	98	3.9	VD	28
1228.4 + 4105	medium compact	144	5.0	D	44
1228.9 + 4034	medium compact	75	1.1	ED	46
1229.3 + 4225	medium compact	105	1.3	ED	21
1229.5 + 4153	medium compact	154	3.5	VD	27
1230.0 + 4314	medium compact	82	1.1	ED	23
1230.2 + 4350	open	83	3.9	D	24
1230.6 + 4020	medium compact	116	1.7	ED	43
1231.4 + 3954	open	161	6.0	MD	42
1231.7 + 4250	medium compact	129	4.4	D	20
1231.7 + 4407	medium compact	64	0.8	ED	25
1232.2 + 4220	compact	170	1.8	ED	31
1232.6 + 4354	medium compact	100	1.3	ED	26
1232.8 + 4130	medium compact	289	3.0	VD	41
1232.8 + 4414	medium compact	88	1.4	ED	22
1233.1 + 4200	medium compact	53	1.2	VD	40
1233.6 + 3825	compact	70	1.4	ED	48
1234.1 + 4032	medium compact	86	1.3	ED	38
1234.6 + 4148	compact	100	1.1	ED	39
1235.0 + 3852	compact	93	1.6	ED	37
1235.4 + 4322	medium compact	84	1.1	ED	19
1236.4 + 4049	compact	144	2.1	ED	36
1236.8 + 4149	medium compact	150	4.4	MD	32
1237.0 + 4429	compact	105	1.1	ED	6
1237.6 + 4330	compact	95	0.9	ED	18
1237.9 + 4248	medium compact	119	5.5	MD	15
1238.0 + 4305	medium compact	149	1.8	ED	17
1239.6 + 3832	medium compact	218	2.9	VD	34
1239.8 + 4429	medium compact	95	1.6	VD	5
1240.4 + 3956	open	132	6.7	MD	35
1243.2 + 4143	open	139	10.6	Near	14
1244.5 + 4100	compact	98	1.1	ED	11
1245.1 + 4133	medium compact	155	1.8	ED	10
1245.4 + 4031	medium compact	74	2.2	VD	16
1246.0 + 3924	medium compact	107	4.5	D	33
1246.0 + 4427	open	56	1.1	ED	4
1246.1 + 4344	medium compact	88	2.1	ED	8
1246.8 + 4121	medium compact	132	3.7	VD	9
1248.8 + 4039	open	123	5.5	MD	12
1248.8 + 4230	medium compact	133	1.8	ED	7
1248.9 + 3908	medium compact	93	1.3	ED	3
1250.5 + 4001	medium compact	70	0.8	ED	13
1250.7 + 4136	medium compact	100	1.8	ED	2
1252.4 + 4326	medium compact	97	2.1	VD	1

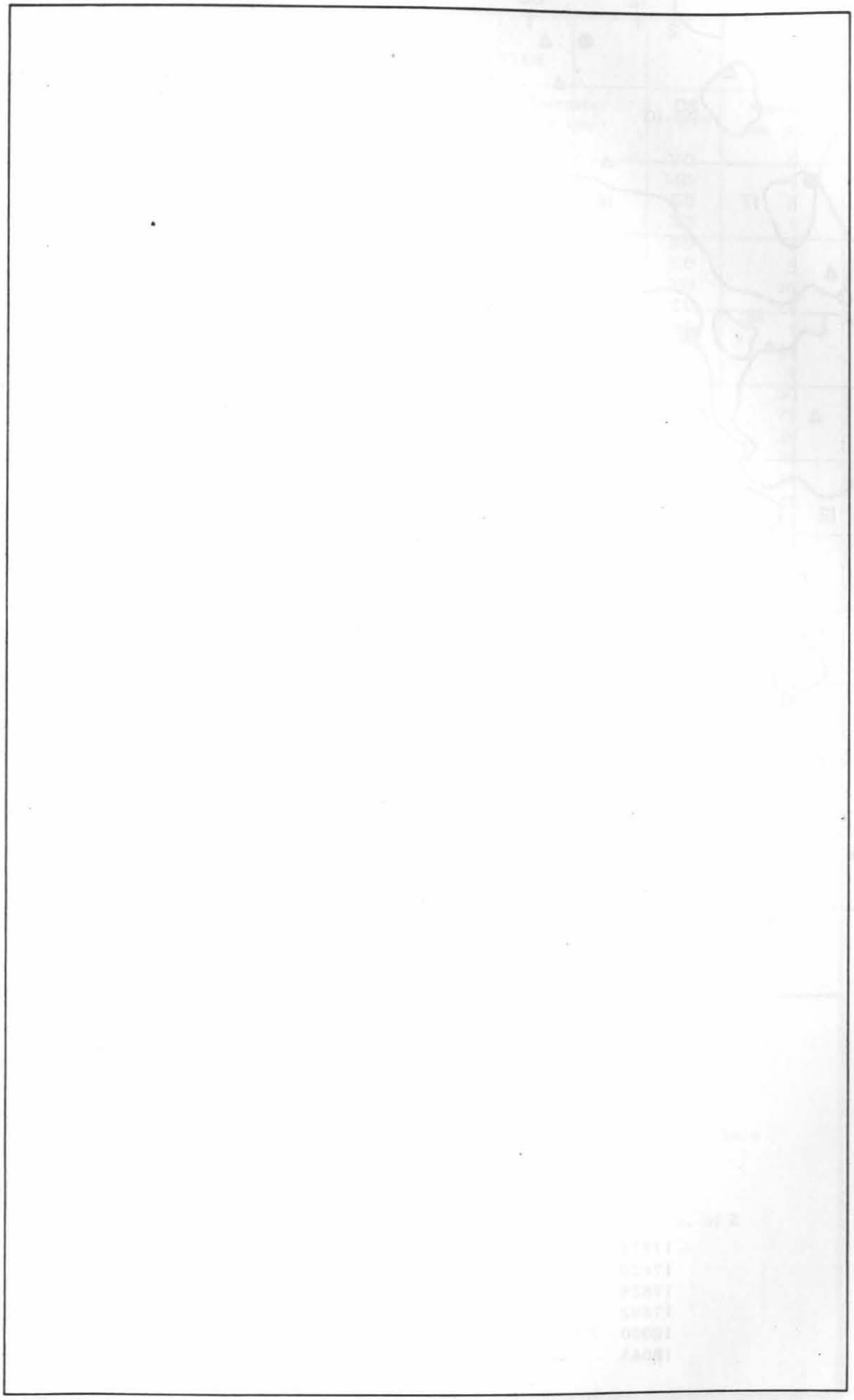
Average number of galaxies per cluster = 117.2

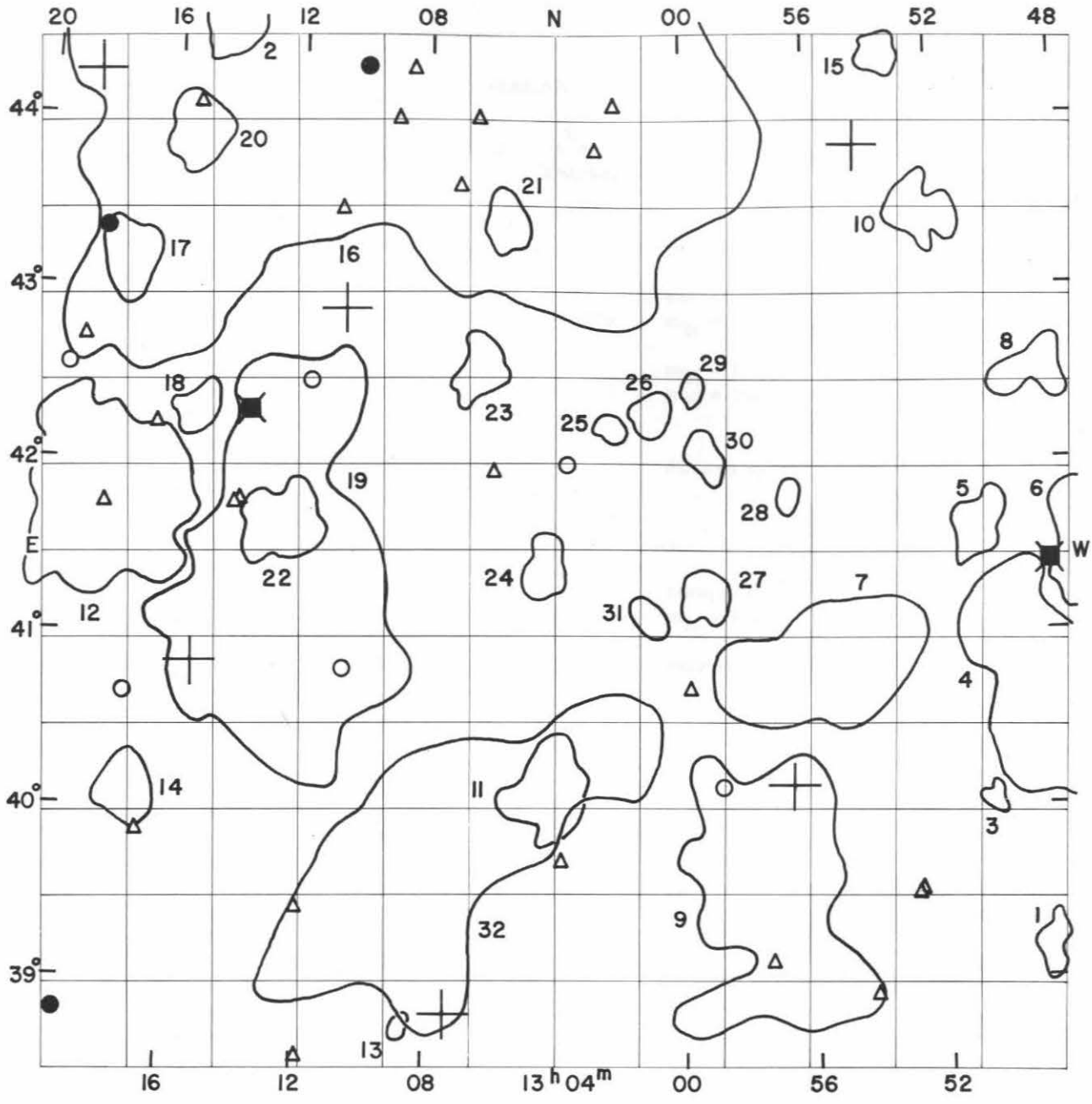
GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
12 19.1	+41 08		14.2		
12 22.1	+39 40	4369	12.3		m_H = 12.4 E
12 25.2	+40 26		15.0		
12 25.2	+43 46		14.7		extremely diffuse
12 25.8	+44 22	4449	10.0	+ 206	m_H = 10.3 I
12 26.3	+43 55		15.5		
12 28.0	+41 59	4485	12.4		m_H = 12.9 I
12 28.1	+41 55	4490	10.1	+ 625	m_H = 10.5 Sc
12 29.5	+40 07		13.9		
12 30.0	+42 59		13.7		
12 31.5	+39 18		15.4		diffuse spiral
12 31.6	+43 42		15.2		
12 33.4	+38 40		15.1		
12 33.9	+40 17		15.2		
12 34.5	+40 38		15.3		
12 35.9	+42 29		15.6		compact
12 39.1	+41 26	4618	11.5	+ 484	m_H = 11.5 I
12 39.5	+41 34	4625=3675*	13.0		
12 39.7	+38 46	3687*	15.5		extremely diffuse
12 39.9	+42 48		15.6		
12 41.2	+41 18	4655	15.3		
12 41.5	+41 01		15.7		
12 41.6	+41 27	3713*	15.5		
12 42.1	+41 01	3723*	15.7		
12 42.3	+40 58	3726*	15.6		
12 43.5	+41 03	3758*	15.5		
12 44.1	+41 06		15.7		
12 44.6	+40 53	3778*	15.6		extremely faint jets
12 45.0	+40 51	3783*	15.6		
12 45.6	+41 00	3795*	15.7		
12 46.3	+42 12	4704	14.8		
12 46.5	+40 52	3808*	15.7		
12 47.1	+41 58		15.3		
12 48.5	+41 23	4736	8.7	+ 298	m_H = 9.0 Sb

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
4449	9.2	Irr.	-	-	9.8	Irr.	9.90	Irr. I
4485	-	-	-	-	-	-	12.24	Sc+
4490	9.7	Sc	-	-	10.0	Sc	10.09	Sc+
4618	11.4	Irr.	-	-	-	Scp	11.08	Sc+
4625	-	-	-	-	-	-	12.82	Sc+
4736	8.4	Sb	-	-	8.7	Sb	8.91	Sb-





FIELD No. 217

13^h04^m $+41°30'$

Survey Plate No. 133

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ′ ″	
17572	12 54 20.3	+ 43 49 20	6.95
17620	12 56 37.1	+ 40 06 49	6.78
17829	13 07 24.1	+ 38 47 59	6.22
17892	13 10 34.9	+ 42 53 29	6.91
18000	13 15 18.2	+ 40 50 07	4.66
18063	13 18 40.0	+ 44 15 05	6.58

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1246.8 + 4121	medium compact	132	3.7	VD	6
1248.8 + 4039	open	123	5.5	MD	4
1248.8 + 4230	medium compact	133	1.8	ED	8
1248.9 + 3908	medium compact	93	1.3	ED	1
1250.5 + 4001	medium compact	70	0.8	ED	3
1250.7 + 4136	medium compact	100	1.8	ED	5
1252.4 + 4326	medium compact	97	2.1	VD	10
1253.5 + 4421	compact	109	1.3	ED	15
1255.7 + 4047	open	119	5.2	MD	7
1256.7 + 4147	compact	50	0.9	ED	28
1257.3 + 3925	medium compact	160	6.8	Near	9
1259.3 + 4201	medium compact	72	1.3	ED	30
1259.4 + 4113	compact	93	1.6	ED	27
1259.6 + 4226	compact	45	0.8	VD	29
1300.9 + 4216	medium compact	63	1.3	ED	26
1301.1 + 4105	compact	63	1.1	ED	31
1302.1 + 4211	compact	48	0.9	ED	25
1304.1 + 4005	medium compact	100	2.7	MD	11
1304.3 + 4123	medium compact	72	1.6	ED	24
1305.5 + 4322	compact	74	1.6	ED	21
1306.3 + 4232	compact	70	1.7	VD	23
1307.0 + 3944	compact	355	8.6	Near	32
1308.3 + 4456	medium compact	477	20.3	Near	16
1308.7 + 3843	compact	38	0.6	ED	13
1312.3 + 4115	open	208	9.2	Near	19
1312.5 + 4139	compact	138	2.5	ED	22
1314.4 + 4432	medium compact	123	2.1	VD	2
1315.2 + 4216	compact	84	1.4	ED	18
1315.5 + 4354	medium compact	116	2.1	D	20
1317.2 + 4005	medium compact	86	2.0	ED	14
1317.5 + 4310	compact	147	2.1	VD	17
1318.0 + 4146	medium compact	322	5.7	D	12

Average number of galaxies per cluster = 124.4

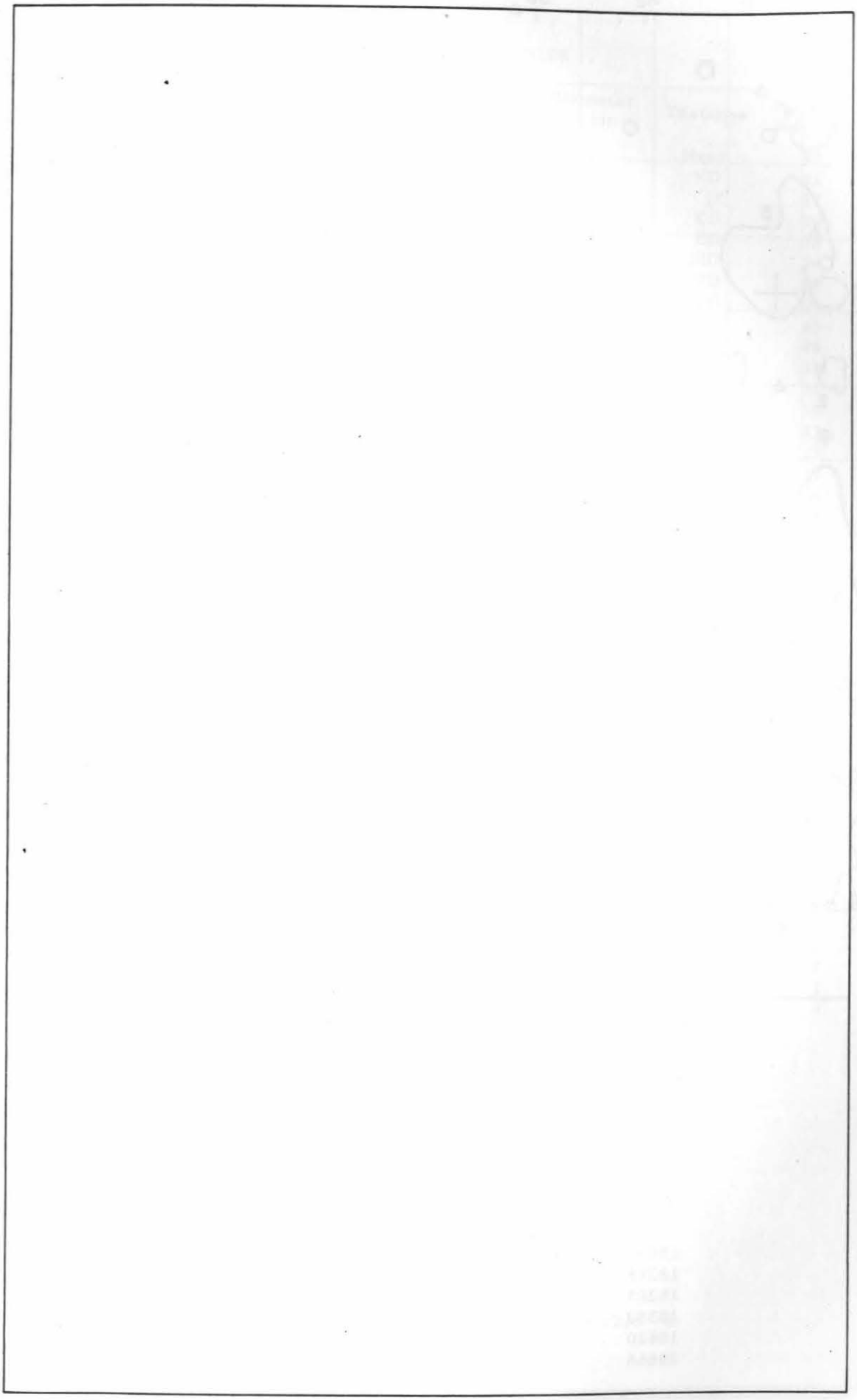
GALAXIES

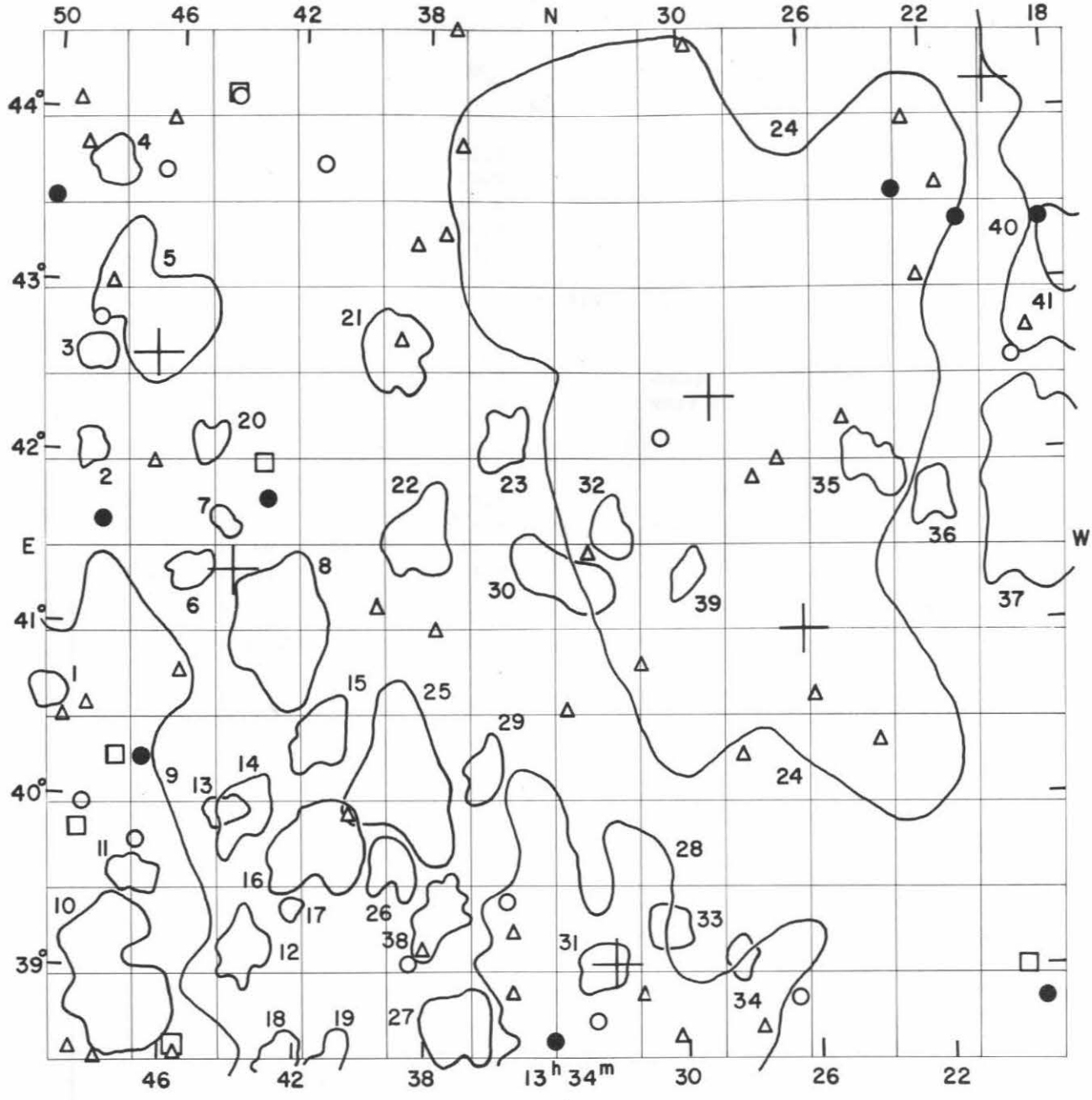
Position α 1950 h m	Position δ ° ′	NGC IC*	m_p	V_s km/sec	Remarks
12 48.5	+ 41 23	4736	8.7	+ 298	m_H = 9.0 Sb
12 52.8	+ 39 30	3892*	15.7		
12 52.9	+ 39 28	3895*	15.7		
12 54.2	+ 38 53	3916*	15.6		
12 57.4	+ 39 05	4003*+4004*	15.4		double system, faint halo
12 58.8	+ 40 07	4062*	15.0		
12 59.7	+ 40 41	4100*	15.1		
13 02.1	+ 44 05		15.5		
13 02.7	+ 43 49		15.7		double nucleus, p. of 2
13 03.6	+ 41 59	4963	14.2		
13 03.8	+ 39 42	4193*	15.6		
13 05.9	+ 41 57	4985	15.1		
13 06.4	+ 44 00		15.3		
13 07.0	+ 43 36		15.7		compact
13 08.5	+ 44 17		15.3		
13 09.0	+ 44 00		15.7		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
13 10.0	+ 44 18	5023	13.2		
13 10.6	+ 40 48		15.0		
13 10.8	+ 43 27		15.6		
13 11.6	+ 42 28		14.9		
13 11.8	+ 38 33		15.1		triple system
13 11.9	+ 39 24		15.6		double system, bridge + jets
13 13.5	+ 42 17	5055	9.7	+ 519	m_H = 10.5 Sb
13 13.8	+ 41 45		15.2		
13 14.0	+ 41 45		15.4		
13 15.4	+ 44 04		15.5		compact
13 16.5	+ 42 12		15.5		very diffuse spiral
13 16.8	+ 39 52	5083	15.4		
13 17.4	+ 40 39	5093	14.8		
13 18.1	+ 41 44		15.7		
13 18.3	+ 43 20	5103	13.6		
13 18.8	+ 42 43		15.5		compact
13 19.1	+ 38 48	5107	13.7		
13 19.4	+ 42 32		14.5		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
4736	8.4	Sb	-	-	8.7	Sb	8.91	Sb-
5055	9.4	Sb	-	-	9.0	Sb	9.26	Sb+





FIELD No. 218

13^h34^m $+41^o30'$

Survey Plate No. 154

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
18094	13 19 52.8	+ 44 09 51	6.41
18218	13 26 13.9	+ 40 59 20	6.54
18283	13 29 05.7	+ 42 21 46	6.15
18352	13 32 09.3	+ 39 02 40	6.21
18620	13 44 06.2	+ 41 20 20	5.69
18668	13 46 37.0	+ 42 35 11	7.02

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1308.3 + 4456	medium compact	477	20.3	Near	40
1317.5 + 4310	compact	147	2.1	VD	41
1318.0 + 4146	medium compact	322	5.7	D	37
1322.0 + 4145	compact	128	1.5	ED	36
1323.9 + 4157	compact	205	1.8	ED	35
1328.2 + 4215	open	390	18.6	MD	24
1328.3 + 3905	medium compact	66	1.1	VD	34
1329.9 + 4119	medium compact	82	1.2	ED	39
1330.5 + 3915	medium compact	107	1.4	VD	33
1331.7 + 3805	open	365	12.4	MD	28
1332.2 + 4134	medium compact	119	1.5	ED	32
1332.5 + 3901	medium compact	105	1.5	ED	31
1333.7 + 4117	compact	320	2.3	ED	30
1335.6 + 4206	medium compact	100	1.7	ED	23
1336.1 + 4010	open	120	1.6	ED	29
1337.0 + 3840	medium compact	266	2.2	ED	27
1337.5 + 3920	medium compact	151	1.9	VD	38
1338.4 + 4132	medium compact	142	2.2	ED	22
1338.6 + 4010	compact	419	3.8	VD	25
1339.0 + 3938	compact	134	1.7	ED	26
1339.0 + 4236	open	136	2.2	VD	21
1340.9 + 3827	medium compact	117	1.4	ED	19
1341.2 + 4022	medium compact	232	2.0	ED	15
1341.3 + 3943	medium compact	321	2.9	ED	16
1342.1 + 3921	compact	59	0.6	ED	17
1342.4 + 3826	compact	176	1.6	VD	18
1342.5 + 4100	compact	95	3.7	VD	8
1343.5 + 3906	medium compact	153	1.8	ED	12
1343.6 + 3955	medium compact	59	1.9	VD	14
1344.1 + 3955	compact	94	1.2	ED	13
1344.4 + 4136	compact	70	0.8	ED	7
1344.9 + 4204	medium compact	67	1.2	ED	20
1345.3 + 4120	compact	94	1.3	ED	6
1346.6 + 4250	open	80	3.9	VD	5
1346.9 + 3931	medium compact	88	1.3	VD	11
1347.4 + 3855	medium compact	110	4.0	D	10
1348.2 + 4342	medium compact	64	1.4	VD	4
1348.5 + 4234	compact	83	1.3	ED	3
1348.6 + 4201	compact	72	1.1	ED	2
1349.6 + 4035	open	60	1.2	ED	1
1352.9 + 3856	medium compact	310	22.1	Near	9

Average number of galaxies per cluster = 163.5

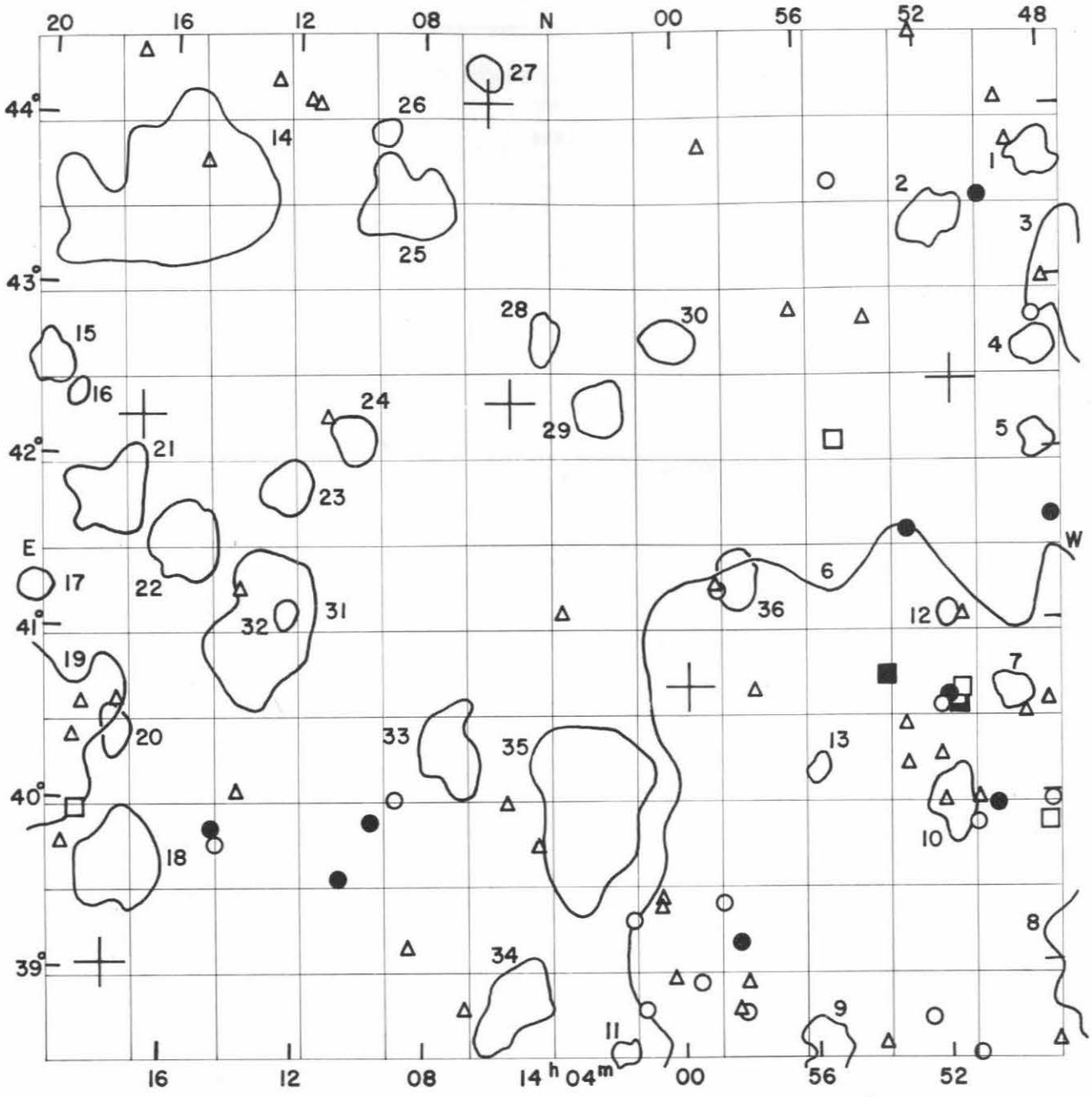
GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
13 18.3	+ 43 20	5103	13.6		
13 18.8	+ 42 43		15.5		compact
13 19.1	+ 38 48	5107	13.7		
13 19.4	+ 42 32		14.5		
13 19.7	+ 39 00	5112	12.5		m_H = 12.6 S
13 21.0	+ 43 20	5123	13.5		
13 21.6	+ 43 33		15.7		

Position α 1950 δ		NGC IC*	m_p	V_s km/sec	Remarks
h m	o '				
13 22.3	+43 01		15.6		
13 22.6	+43 56		15.5		diffuse spiral
13 23.0	+43 31	5145	13.6		
13 23.9	+40 20		15.5		
13 24.9	+42 13		15.5		
13 25.9	+40 36		15.7		
13 26.6	+38 50		15.0		double system
13 27.0	+42 00		15.7		
13 27.7	+38 40		15.7		
13 27.8	+41 53		15.6		
13 28.2	+40 15		15.7		
13 29.7	+44 24		15.6		
13 30.2	+38 37		15.6		
13 30.6	+42 08	5214	14.4		double system
13 31.3	+40 47		15.6		
13 31.4	+38 52		15.7		
13 32.7	+38 43		14.7		
13 33.0	+41 27		15.7		
13 33.7	+40 32		15.5		
13 34.0	+38 36	5243	14.0		
13 35.3	+38 53		15.1		double system
13 35.3	+39 14		15.3		
13 35.5	+39 25		14.2		
13 36.9	+43 49		15.4		
13 37.1	+44 30		15.7		
13 37.5	+43 18		15.2		
13 37.8	+41 00		15.3		
13 38.0	+39 07		15.2		
13 38.4	+39 02	5267	14.3		
13 38.4	+43 15		15.4		double system
13 38.8	+42 41		15.1		
13 39.5	+41 08		15.5		very diffuse spiral
13 40.4	+39 55		15.7		extremely diffuse
13 41.4	+43 43		14.8		
13 43.0	+41 45	5289	13.5		
13 43.1	+41 58	5290	13.0		
13 44.2	+44 05	5296	15.0		
13 44.3	+44 07	5297	12.3		m_H = 13.0
13 45.6	+38 30		15.3		
13 45.6	+38 33	5303	12.9		
13 45.6	+40 44		15.4		
13 46.3	+43 57		15.7		
13 46.5	+43 39		14.6		
13 46.6	+41 58		15.6		double nucleus
13 46.8	+40 14	5311	13.7		
13 46.9	+39 45		14.3		
13 47.6	+40 14	5313	12.4		m_H = 13.0
13 48.0	+38 28		15.4		compact
13 48.2	+41 37	5320	13.1		
13 48.2	+42 59		15.5		
13 48.5	+42 47		14.5		
13 48.6	+39 57	4336*	14.6		
13 48.6	+40 31		15.2		
13 48.7	+39 49	5326	12.9		m_H = 13.1
13 48.8	+38 31	5325	15.1		
13 49.1	+43 47		15.6		
13 49.3	+40 27		15.4		compact
13 49.4	+44 03		15.2		
13 50.1	+43 29	5336	13.6		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
5297	12.5	Sc	-	-	-	-	-	-



FIELD No. 219

14^h04^m $+41^o30'$

Survey Plate No. 1386

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
18778	13 51 15.8	+ 42 25 49	6.69
18960	13 59 44.4	+ 40 39 38	6.96
19071	14 05 19.0	+ 42 20 09	7.26
19084	14 05 55.9	+ 44 05 30	5.44
19322	14 16 57.5	+ 42 14 07	7.20
19341	14 17 44.5	+ 39 01 23	5.98

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1346.6 + 4250	open	80	3.9	VD	3
1347.4 + 3855	medium compact	110	4.0	D	8
1348.2 + 4342	medium compact	64	1.4	VD	1
1348.5 + 4234	compact	83	1.3	ED	4
1348.6 + 4201	compact	72	1.1	ED	5
1349.6 + 4035	open	60	1.2	ED	7
1351.5 + 4103	compact	37	0.7	ED	12
1351.6 + 3957	medium compact	123	1.7	ED	10
1351.7 + 4320	medium compact	114	1.8	VD	2
1352.9 + 3856	medium compact	310	22.1	Near	6
1355.7 + 4010	compact	49	0.7	ED	13
1355.9 + 3827	medium compact	71	1.8	VD	9
1358.1 + 4117	compact	88	1.5	ED	36
1400.2 + 4241	medium compact	95	1.5	ED	30
1401.9 + 3829	compact	47	0.8	ED	11
1402.5 + 4217	open	86	1.6	ED	29
1402.8 + 3954	medium compact	94	4.5	D	35
1404.3 + 4241	medium compact	56	1.1	VD	28
1405.2 + 3847	medium compact	101	2.4	VD	34
1406.0 + 4415	compact	63	1.0	ED	27
1407.1 + 4017	medium compact	128	2.3	ED	33
1408.7 + 4330	medium compact	136	2.5	VD	25
1409.2 + 4355	compact	62	0.8	ED	26
1410.1 + 4206	compact	94	1.5	ED	24
1412.2 + 4149	medium compact	86	1.6	ED	23
1412.3 + 4105	compact	48	0.7	ED	32
1413.0 + 4100	medium compact	134	3.8	D	31
1415.5 + 4130	compact	151	2.2	ED	22
1416.3 + 4331	medium compact	190	5.6	MD	14
1417.4 + 3936	medium compact	181	2.8	MD	18
1417.6 + 4024	compact	69	1.1	ED	20
1418.0 + 4145	medium compact	196	2.3	ED	21
1419.0 + 4221	compact	51	0.6	ED	16
1419.8 + 4232	compact	95	1.4	ED	15
1420.3 + 4113	medium compact	56	1.1	ED	17
1420.7 + 4025	medium compact	145	6.2	Near	19

Average number of galaxies per cluster = 100.7

GALAXIES

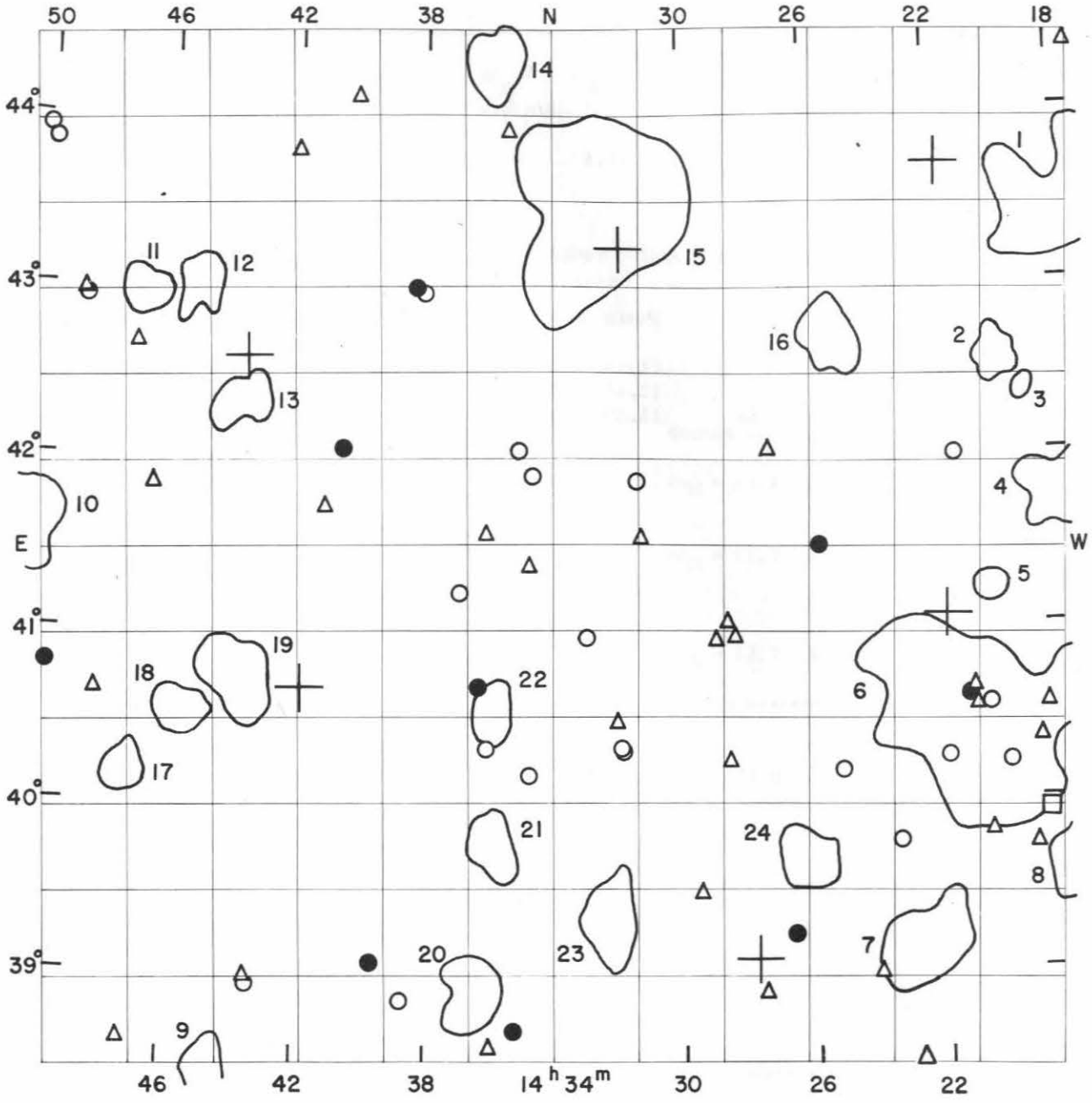
Position α 1950 δ	NGC IC*	m_p	V_s km/sec	Remarks
h m o '				
13 48.2 + 41 37	5320	13.1		
13 48.2 + 42 59		15.5		
13 48.5 + 42 47		14.5		
13 48.6 + 39 57	4336*	14.6		
13 48.6 + 40 31		15.2		
13 48.7 + 39 49	5326	12.9		m_H = 13.1
13 48.8 + 38 31	5325	15.1		
13 49.1 + 43 47		15.6		
13 49.3 + 40 27		15.4		compact
13 49.4 + 44 03		15.2		
13 50.1 + 43 29	5336	13.6		
13 50.3 + 39 56	5337	13.4		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
13 50.9	+ 39 58		15.6		
13 51.0	+ 39 49	5346	14.9		
13 51.1	+ 38 28		15.0		
13 51.1	+ 41 02		15.4		
13 51.3	+ 40 36	5350	12.4		m_H = 12.9 S
13 51.4	+ 40 31	5353	11.8	+ 2188	m_H = 12.4
13 51.4	+ 40 32	5354	12.3		
13 51.6	+ 40 35	5355	14.0		
13 51.9	+ 39 57		15.7		
13 51.9	+ 40 31	5358	14.6		
13 52.0	+ 40 13		15.3		
13 52.1	+ 44 27		15.4		double system
13 52.5	+ 38 41	5361	14.7		
13 52.8	+ 41 33	5362	13.2		m_H = 13.2
13 53.0	+ 40 10		15.3		
13 53.0	+ 40 24		15.1		
13 53.5	+ 40 42	5371	11.5	+ 2592	m_H = 11.7 S
13 53.9	+ 42 47		15.7		
13 54.0	+ 38 32		15.3		
13 54.9	+ 43 35		15.0		
13 55.0	+ 42 05	5383	12.5		m_H = 12.7 SBc
13 56.3	+ 42 51		15.6		
13 57.6	+ 40 37		15.1		double system
13 58.0	+ 38 55		15.3		
13 58.1	+ 38 44		15.0		
13 58.2	+ 39 09	5406	13.1		m_H = 13.0
13 58.3	+ 38 45		15.4		
13 58.7	+ 39 23	5407	14.5		
13 58.7	+ 41 14	5410	14.1		
13 58.8	+ 41 15		15.4		
13 59.2	+ 43 49		15.7		
13 59.5	+ 38 55		14.7		
14 00.3	+ 38 57		15.7		
14 00.6	+ 39 24		15.2		
14 00.7	+ 39 22		15.7		
14 01.2	+ 38 46		14.2		
14 01.5	+ 39 17		14.4		
14 03.6	+ 41 05		15.7		very diffuse spiral
14 04.4	+ 39 44		15.3		
14 05.3	+ 39 59		15.3		
14 06.7	+ 38 46		15.5		
14 08.4	+ 39 07	5497	15.1		
14 08.8	+ 40 00		14.9		
14 09.5	+ 39 53		13.9		
14 10.5	+ 39 32	5515	13.7		
14 11.0	+ 42 14		15.5		
14 11.4	+ 44 05		15.6		
14 11.6	+ 44 06		15.1		
14 12.7	+ 44 12		15.7		
14 13.7	+ 41 13		15.5		
14 13.8	+ 40 01	990*	15.4		
14 14.3	+ 39 44	5536	14.5		
14 14.4	+ 39 49	5541	13.4		
14 15.0	+ 43 44		15.6		
14 17.2	+ 44 22		15.7		
14 17.5	+ 40 33		15.4		
14 18.6	+ 40 33		15.5		
14 18.7	+ 39 56	5582	13.0		
14 18.9	+ 40 21		15.5		very compact

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
14 19.1	+39 44		15.6		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
5353	-	-	12.14	S0	12.1	S0	-	-
5354	-	-	12.48	S0	-	-	-	-
5371	11.2	Sc	11.59	Sb	11.4	Sb	-	-



FIELD No. 220

14^h34^m $+41^o30'$

Survey Plate No. 145

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
19421	14 21 37.2	+ 43 41 05	7.58
19429	14 21 42.3	+ 41 04 11	6.65
19554	14 27 44.2	+ 39 04 59	Var.
19645	14 31 49.7	+ 43 13 33	6.82
19841	14 41 48.0	+ 40 40 12	5.79
19881	14 43 36.4	+ 42 35 28	7.24

CLUSTERS OF GALAXIES

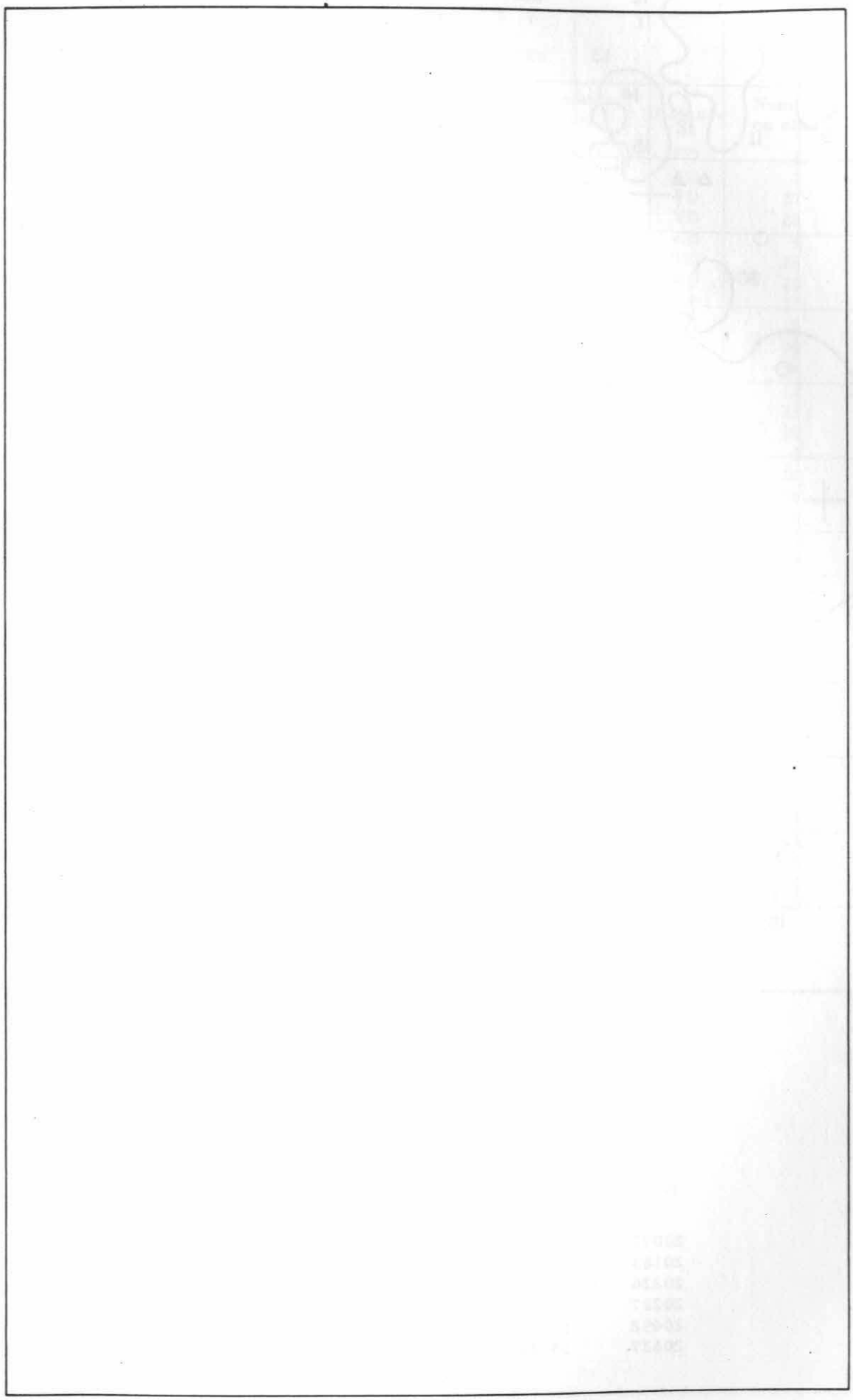
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1416.3 + 4331	medium compact	190	5.6	MD	1
1417.4 + 3936	medium compact	181	2.8	MD	8
1418.0 + 4145	medium compact	196	2.3	ED	4
1419.0 + 4221	compact	51	0.6	ED	3
1419.8 + 4232	compact	95	1.4	ED	2
1420.3 + 4113	medium compact	56	1.1	ED	5
1420.7 + 4025	medium compact	145	6.2	Near	6
1422.6 + 3908	compact	178	2.8	VD	7
1425.1 + 4241	medium compact	103	2.0	VD	16
1426.1 + 3938	compact	78	1.9	ED	24
1432.2 + 3919	open	102	2.2	ED	23
1432.5 + 4325	open	138	5.6	D	15
1435.8 + 3944	medium compact	104	1.7	VD	21
1435.9 + 4030	compact	102	1.5	ED	22
1435.9 + 4417	medium compact	78	2.0	ED	14
1436.4 + 3852	medium compact	47	2.2	ED	20
1443.7 + 4217	medium compact	129	1.7	ED	13
1443.8 + 4043	compact	97	2.3	VD	19
1444.2 + 3820	medium compact	109	2.0	ED	9
1445.0 + 4259	compact	95	1.6	ED	12
1445.4 + 4031	medium compact	81	1.6	ED	18
1446.8 + 4255	medium compact	91	1.6	ED	11
1447.2 + 4010	compact	80	1.4	ED	17
1451.0 + 4135	medium compact	118	3.1	VD	10

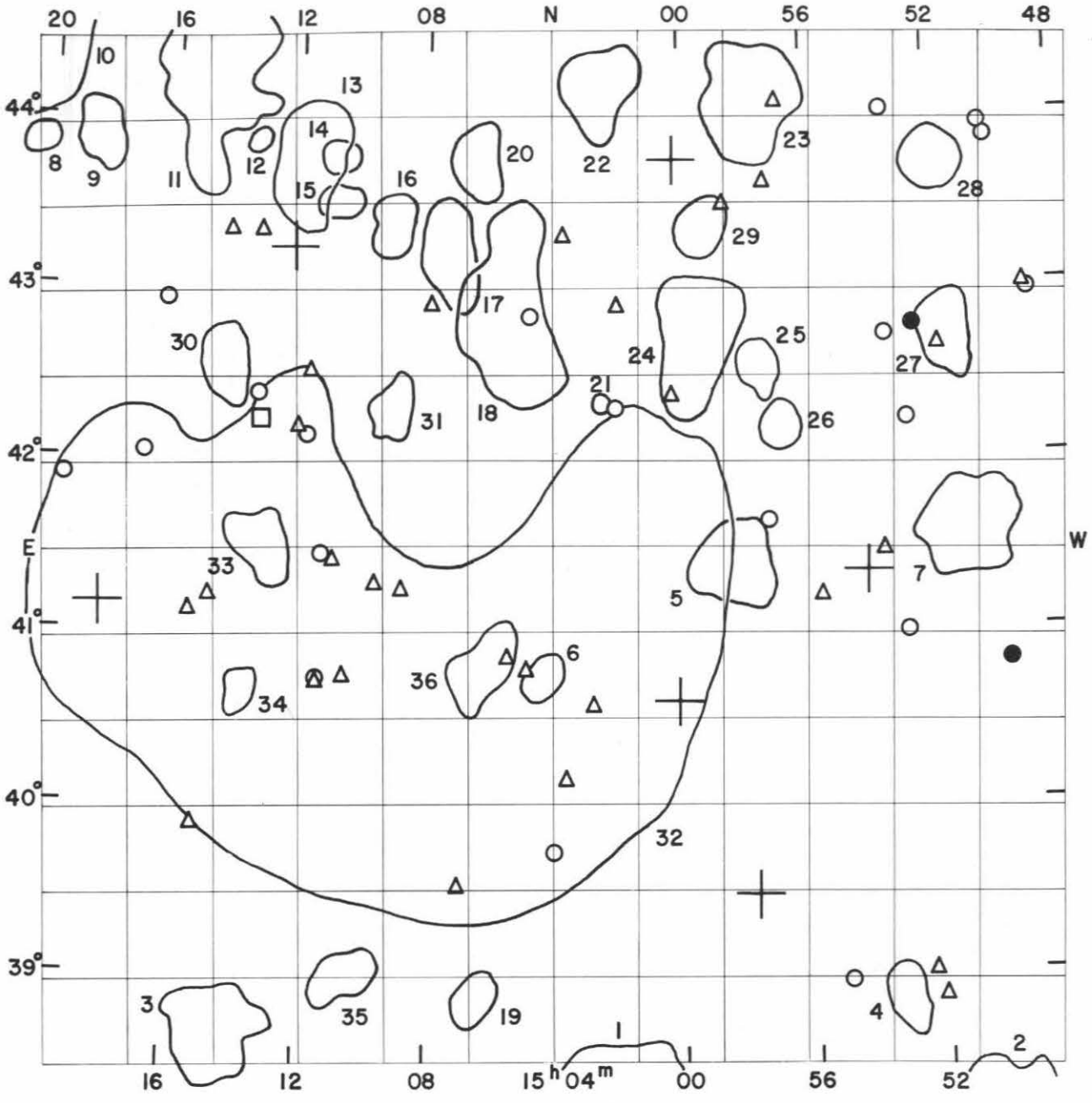
Average number of galaxies per cluster = 110.2

GALAXIES

Position α 1950 h m	Position δ 1950 ° ′	NGC IC*	m_p	V_s km/sec	Remarks
14 17.2	+ 44 22		15.7		
14 18.6	+ 40 33		15.5		
14 18.7	+ 39 56	5582	13.0		
14 18.9	+ 40 21		15.5		very compact
14 19.1	+ 39 44		15.6		
14 19.9	+ 40 13		15.0		
14 20.5	+ 40 33	5598	14.3		
14 20.6	+ 39 49		15.5		
14 20.9	+ 40 32	5601	15.6		
14 21.0	+ 40 39		15.1		diffuse
14 21.1	+ 40 36	5603	14.0		
14 21.3	+ 42 00	5608	14.3		
14 21.7	+ 40 15		14.7		
14 22.8	+ 38 28		15.2		
14 23.3	+ 39 45		14.8		
14 24.0	+ 39 00		15.5		
14 25.0	+ 40 11	5625	14.8		
14 25.6	+ 41 29	5630	13.6		
14 26.6	+ 39 13		14.0		
14 27.1	+ 42 03		15.3		
14 27.5	+ 38 53		15.5		
14 28.3	+ 40 57		15.7		
14 28.5	+ 40 15		15.5		
14 28.5	+ 41 02		15.6		

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
14 29.0	+ 40 56		15.7		
14 29.5	+ 39 29		15.4		
14 31.2	+ 41 32		15.6		
14 31.3	+ 41 52	1028*	14.8		
14 31.8	+ 40 17		15.0		
14 31.8	+ 40 18		14.8		
14 32.0	+ 40 28		15.6		
14 32.9	+ 40 58		14.9		
14 34.6	+ 41 54	5697=4471*	14.6		
14 34.7	+ 40 10		15.0		
14 34.7	+ 41 22		15.6		
14 35.0	+ 42 02	5696	14.1		
14 35.2	+ 38 40	5698	14.0		
14 35.3	+ 43 55		15.4		
14 36.0	+ 38 35		15.6		double system
14 36.0	+ 40 19		14.8		
14 36.0	+ 41 34		15.7		
14 36.3	+ 40 40	5708	13.9		
14 36.9	+ 41 14		14.6		
14 38.0	+ 42 58	5731	14.7		
14 38.3	+ 43 00	5730	14.0		
14 38.6	+ 38 51	5732	14.4		
14 39.5	+ 39 04		13.8		
14 40.1	+ 44 06		15.7		compact
14 40.6	+ 42 03	5739	13.7		m_H = 13.1
14 41.1	+ 41 43		15.7		
14 42.0	+ 43 47		15.4		
14 43.3	+ 38 56	5752+5754	14.1		double system
14 43.4	+ 38 59	5753+5755	15.1		double system
14 46.5	+ 41 50		15.7		
14 47.1	+ 42 40		15.3		
14 47.2	+ 38 37		15.4		
14 48.2	+ 40 39		15.6		
14 48.8	+ 42 56		14.6		
14 48.9	+ 42 58		15.5		very compact
14 49.7	+ 40 49	5772	13.9		
14 49.9	+ 43 51		14.9		
14 50.1	+ 43 56		14.4		





FIELD No. 221

15^h04^m $+41^o30'$

Survey Plate No. 1371

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
20097	14 54 06.7	+ 41 20 14	7.21
20183	14 57 41.9	+ 39 27 45	5.58
20226	15 00 03.7	+ 40 35 12	3.63
20227	15 00 05.8	+ 43 44 13	8.2
20492	15 12 12.5	+ 43 13 58	6.55
20627	15 18 13.2	+ 41 09 41	6.80

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1450.2 + 3811	compact	224	3.2	ED	2
1451.0 + 4135	medium compact	118	3.1	VD	7
1451.4 + 4241	medium compact	93	2.1	VD	27
1451.6 + 4342	medium compact	122	2.0	VD	28
1453.3 + 3849	compact	109	1.6	ED	4
1456.7 + 4210	medium compact	75	1.4	VD	26
1457.4 + 4232	compact	93	1.5	ED	25
1457.6 + 4404	medium compact	268	3.3	VD	23
1458.2 + 4121	medium compact	65	2.6	D	5
1459.1 + 4319	open	68	1.6	ED	29
1459.4 + 4240	compact	214	3.4	VD	24
1501.8 + 3803	medium compact	218	5.9	D	1
1502.4 + 4219	compact	44	0.5	ED	21
1502.5 + 4408	medium compact	85	2.5	VD	22
1504.3 + 4043	compact	74	1.3	ED	6
1505.4 + 4250	medium compact	141	4.2	D	18
1506.2 + 4046	open	86	2.2	ED	36
1506.4 + 4343	open	105	2.0	VD	20
1506.5 + 3850	compact	71	1.5	ED	19
1507.2 + 4310	compact	240	2.4	ED	17
1508.8 + 4054	open	200	17.9	Near	32
1509.0 + 4216	compact	74	1.5	ED	31
1509.0 + 4320	medium compact	124	1.6	VD	16
1510.4 + 3859	open	76	1.8	ED	35
1510.8 + 4328	medium compact	73	1.2	ED	15
1510.8 + 4345	medium compact	61	1.1	ED	14
1511.7 + 4342	medium compact	149	3.1	VD	13
1513.1 + 4130	medium compact	99	2.1	VD	33
1513.4 + 4351	compact	89	0.7	ED	12
1513.7 + 4038	medium compact	57	1.2	VD	34
1514.2 + 4232	compact	130	2.0	ED	30
1514.3 + 3837	medium compact	158	3.0	MD	3
1514.8 + 4408	open	109	4.2	D	11
1518.6 + 4353	open	98	1.8	VD	9
1520.6 + 4350	medium compact	73	1.1	ED	8
1521.8 + 4410	open	144	4.5	D	10

Average number of galaxies per cluster = 117.4

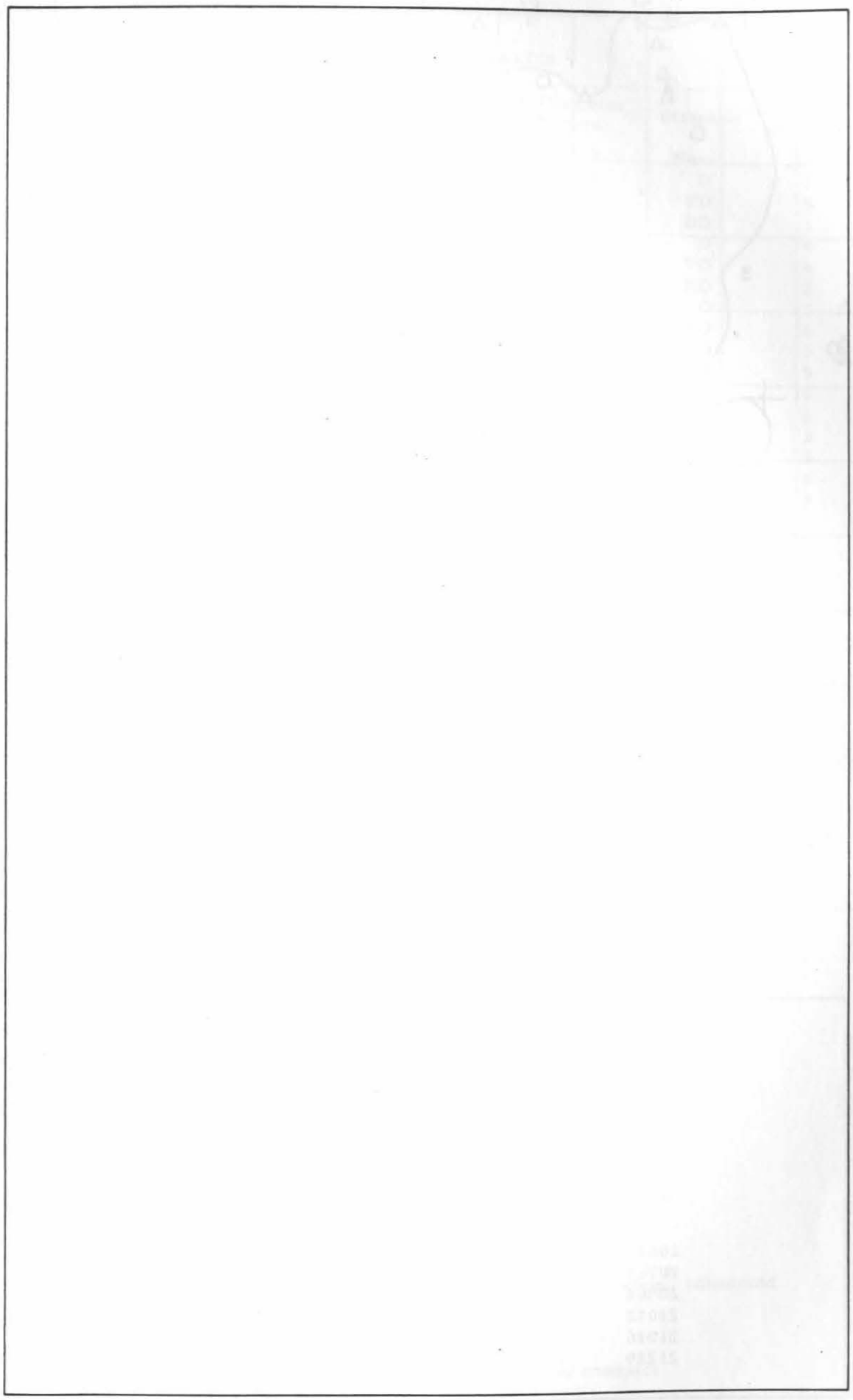
GALAXIES

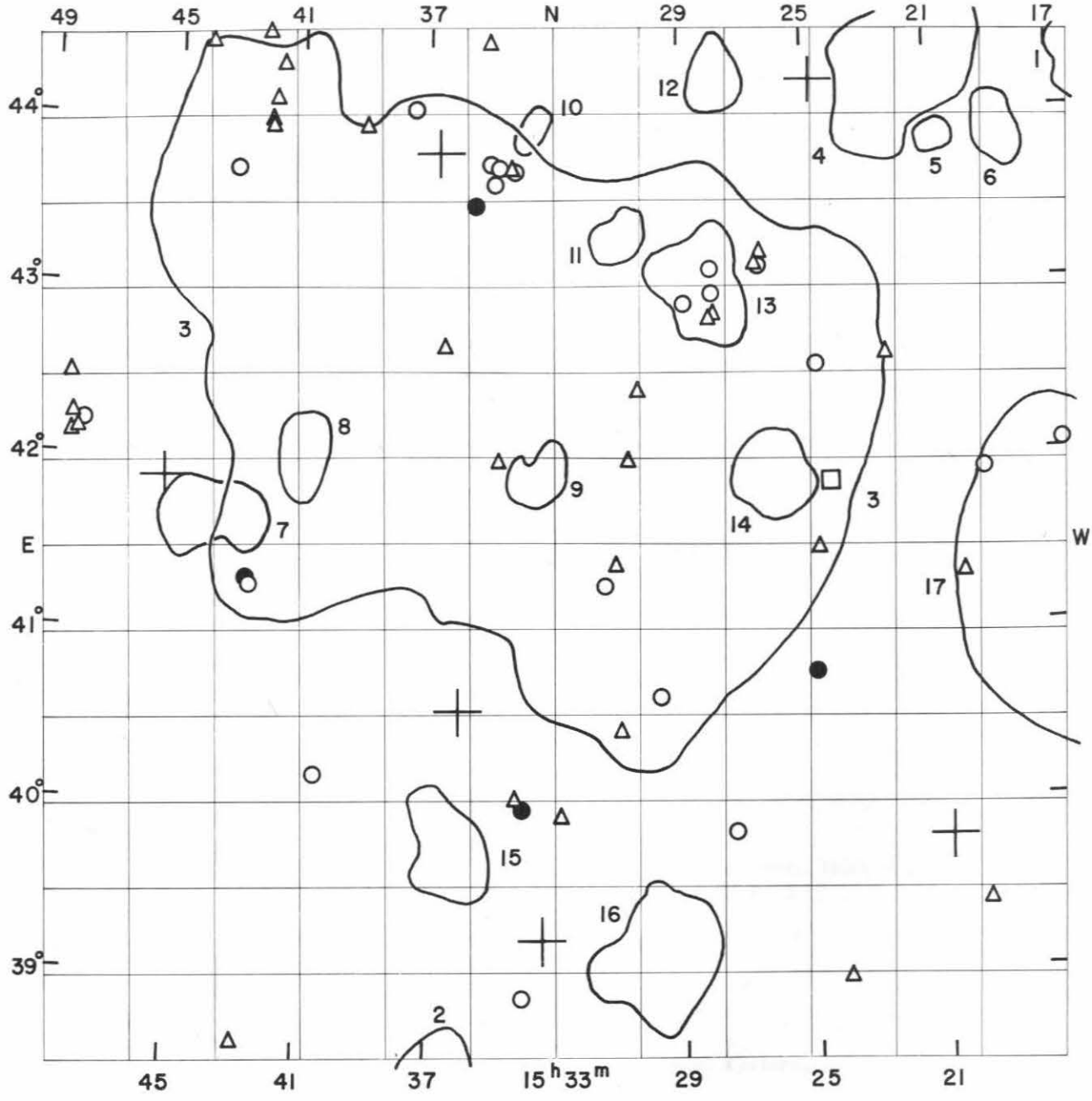
Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
14 48.8	+ 42 56		14.6		
14 48.9	+ 42 58		15.5		very compact
14 49.7	+ 40 49	5772	13.9		
14 49.9	+ 43 51		14.9		
14 50.1	+ 43 56		14.4		
14 51.7	+ 42 38		15.7		
14 52.1	+ 38 51		15.4		
14 52.4	+ 39 00		15.6		
14 52.4	+ 42 45	5784	13.7		
14 52.8	+ 42 13		14.8		
14 52.9	+ 40 59		15.0		
14 53.3	+ 44 00		15.0		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
14 53.4	+ 42 42	5787	14.1		
14 53.6	+ 41 27		15.2		
14 55.0	+ 38 56		14.4		
14 55.6	+ 41 11		15.6		
14 56.8	+ 44 04		15.3		
14 57.1	+ 41 38		14.9		
14 57.1	+ 43 35		15.3		
14 58.5	+ 43 28		15.4		double system
15 00.2	+ 42 23		15.6		
15 01.9	+ 42 53	1090*	15.1		
15 02.0	+ 42 18		14.8		
15 02.7	+ 40 34		15.1		
15 03.6	+ 40 08		15.5		
15 03.6	+ 43 18		15.7		
15 04.0	+ 39 43	5853	14.8		
15 04.7	+ 42 50	5860	14.2		double nebula in halo
15 04.8	+ 40 46		15.7		compact
15 05.4	+ 40 51		15.6		diffuse
15 07.0	+ 39 30		15.6		
15 07.9	+ 42 54		15.5		
15 08.7	+ 41 15		15.5		
15 09.5	+ 41 17		15.2		
15 10.5	+ 40 45		15.2		compact
15 10.9	+ 41 25	5886	15.1		
15 11.2	+ 41 27	5888	14.3		
15 11.3	+ 40 44		15.0		
15 11.4	+ 40 43		15.3		
15 11.6	+ 42 31		15.4		
15 11.7	+ 42 09	5893	14.1		
15 12.0	+ 42 11	5895+5896	15.5		double system, faint bridge
15 13.2	+ 42 14	5899	12.6	+ 2549	m_H = 12.4 S
15 13.2	+ 42 24	5900	15.0		
15 13.3	+ 43 20		15.2		
15 14.2	+ 43 20		15.7		
15 14.8	+ 41 13		15.6		
15 15.1	+ 39 53		15.1		
15 15.4	+ 41 08		15.5		
15 16.2	+ 42 55		14.9		double system, twisted arms
15 16.9	+ 42 02	5914	14.9		
15 19.4	+ 41 54	5923	14.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
5899	-	-	12.48	Sb	12.5	Sb	-	-





FIELD No. 222

15^h33^m $+41^o30'$

Survey Plate No. 1376

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
20690	15 20 46.3	+ 39 45 32	5.85
20764	15 24 43.0	+ 44 10 40	7.40
20964	15 33 24.8	+ 39 10 30	5.44
21032	15 36 01.8	+ 40 30 55	5.41
21046	15 36 41.0	+ 43 45 58	6.75
21229	15 45 18.3	+ 41 52 23	8.1

CLUSTERS OF GALAXIES

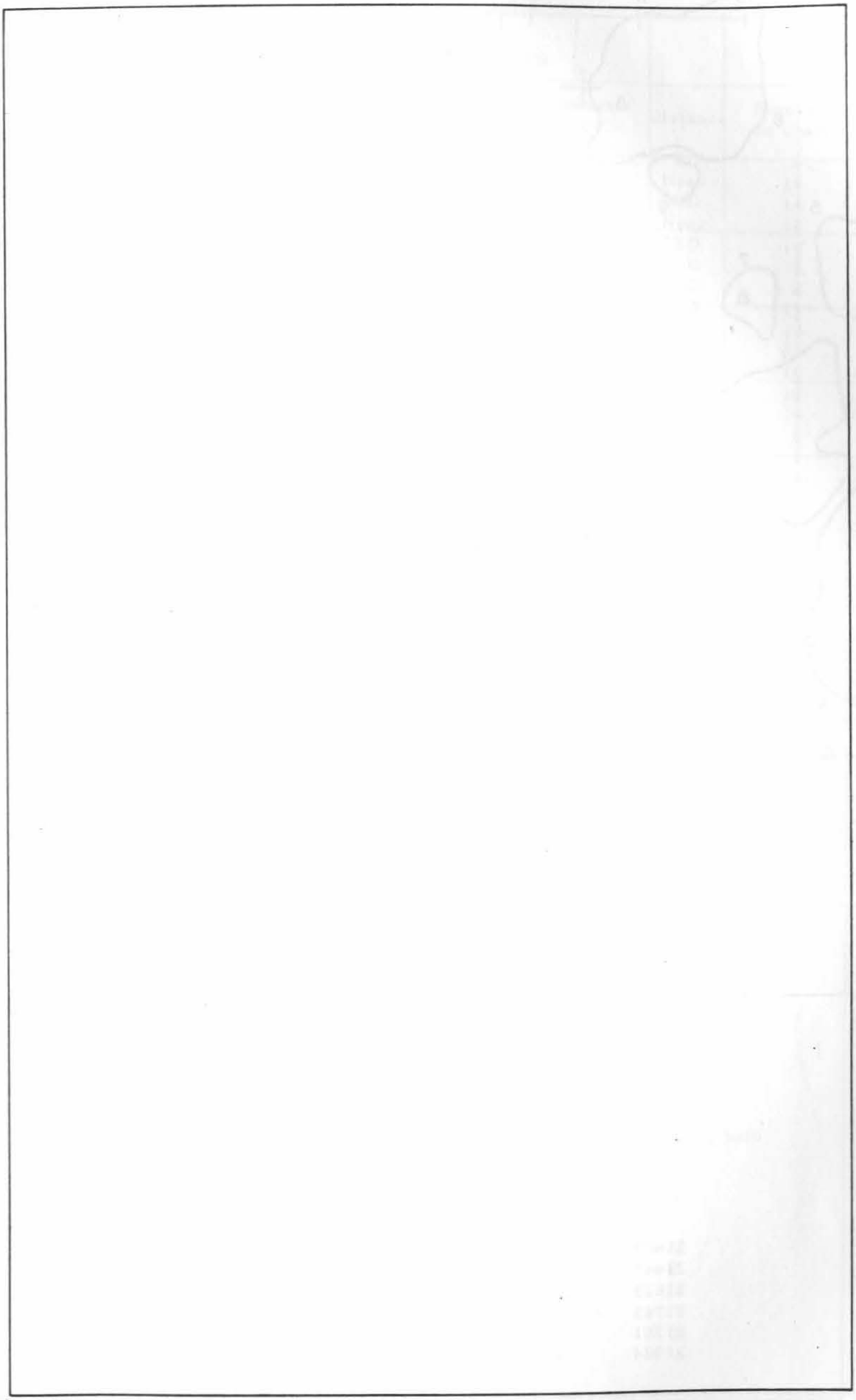
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1508.8 + 4054	open	200	17.9	Near	17
1514.8 + 4408	open	109	4.2	D	1
1518.6 + 4353	open	98	1.8	VD	6
1520.6 + 4350	medium compact	73	1.1	ED	5
1521.8 + 4410	open	144	4.5	D	4
1526.0 + 4153	medium compact	112	2.7	VD	14
1527.8 + 4411	compact	110	2.1	ED	12
1528.2 + 4259	medium compact	86	3.3	D	13
1529.8 + 3903	medium compact	117	4.0	VD	16
1530.9 + 4316	compact	84	1.6	VD	11
1533.5 + 4151	medium compact	78	1.9	ED	9
1533.7 + 4355	medium compact	69	1.1	ED	10
1534.0 + 4222	medium compact	290	21.7	Near	3
1534.7 + 3753	medium compact	126	6.7	D	2
1536.3 + 3941	open	133	3.0	VD	15
1540.9 + 4200	medium compact	147	2.1	D	8
1543.7 + 4139	medium compact	128	2.9	D	7

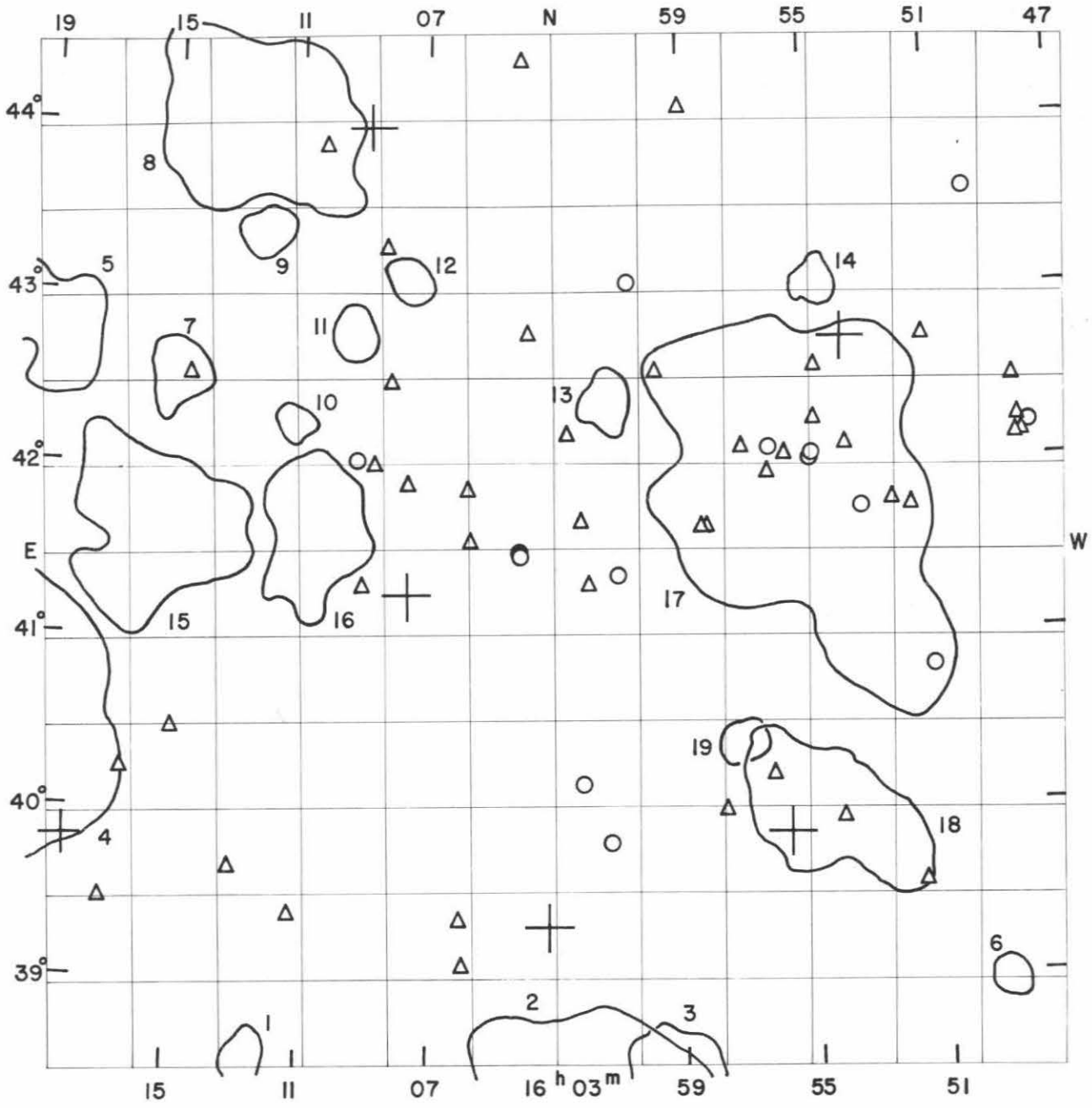
Average number of galaxies per cluster = 123.8

GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
15 16.9	+ 42 02	5914	14.9		
15 19.4	+ 41 54	5923	14.7		
15 19.7	+ 39 22		15.3		
15 20.1	+ 41 18		15.2		
15 22.5	+ 42 34		15.4		
15 24.0	+ 38 56		15.7		
15 24.3	+ 41 51	5929+5930	13.0		double system in halo
15 24.6	+ 41 28		15.5		
15 24.7	+ 42 32		15.0		
15 24.8	+ 40 44		14.0		
15 26.4	+ 43 05	5934	14.5		
15 26.4	+ 43 11		15.7		
15 26.5	+ 43 06	5935	15.1		
15 27.4	+ 39 48		14.7		
15 27.9	+ 42 50		15.2		
15 28.0	+ 42 57	5943	14.6		
15 28.0	+ 43 05	5945	14.1		
15 28.1	+ 42 48		15.6		
15 28.9	+ 42 53	5947	14.8		
15 29.7	+ 40 36	5950	14.8		
15 30.4	+ 42 23		15.7		
15 30.7	+ 41 59		15.6		
15 30.9	+ 40 24		15.6		
15 31.0	+ 41 22		15.3		
15 31.4	+ 41 15		14.9		
15 32.8	+ 39 54	4557*	15.7		
15 34.0	+ 38 50		14.4		double system, connected
15 34.0	+ 39 57	5966	13.9		
15 34.2	+ 40 00	4563*	15.1		
15 34.3	+ 43 39	4562*	13.8		
15 34.4	+ 43 40		15.3		very compact

Position α 1950 δ		NGC IC*	m_p	V_s km/sec	Remarks
h m	o '				
15 34.8	+41 58		15.3		
15 34.8	+43 41	4564*	14.4		
15 34.9	+43 35	4565*	14.8		
15 35.0	+43 43	4566*	14.3		
15 35.1	+44 24		15.5		diffuse, irregular
15 35.5	+43 28	4567*	13.5		
15 36.5	+42 38		15.7		
15 37.5	+44 02		14.6		
15 39.0	+43 55		15.5		
15 40.5	+40 09		14.7		
15 41.7	+44 16		15.5		
15 41.9	+44 04		15.6		
15 42.1	+43 56		15.3		
15 42.1	+43 57		15.6		
15 42.3	+44 28		15.4		
15 42.6	+41 15	5992	14.2		
15 42.7	+41 17	5993	13.9		
15 42.8	+38 35		15.6		
15 43.1	+43 40		15.0		
15 44.1	+44 24		15.7		
15 47.9	+42 11		15.0		
15 48.1	+42 08		15.7		
15 48.3	+42 07		15.5		
15 48.3	+42 14		15.6		
15 48.4	+42 27		15.3		





FIELD No. 223

16^h03^m $+41^o30'$

Survey Plate No. 1369

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
21400	15 53 49.5	+ 42 42 38	5.61
21445	15 55 44.1	+ 39 50 13	6.44
21623	16 03 13.2	+ 39 17 26	6.84
21743	16 07 36.3	+ 41 13 29	6.85
21761	16 08 46.9	+ 43 57 02	6.54
21984	16 18 12.3	+ 39 49 38	5.54

CLUSTERS OF GALAXIES

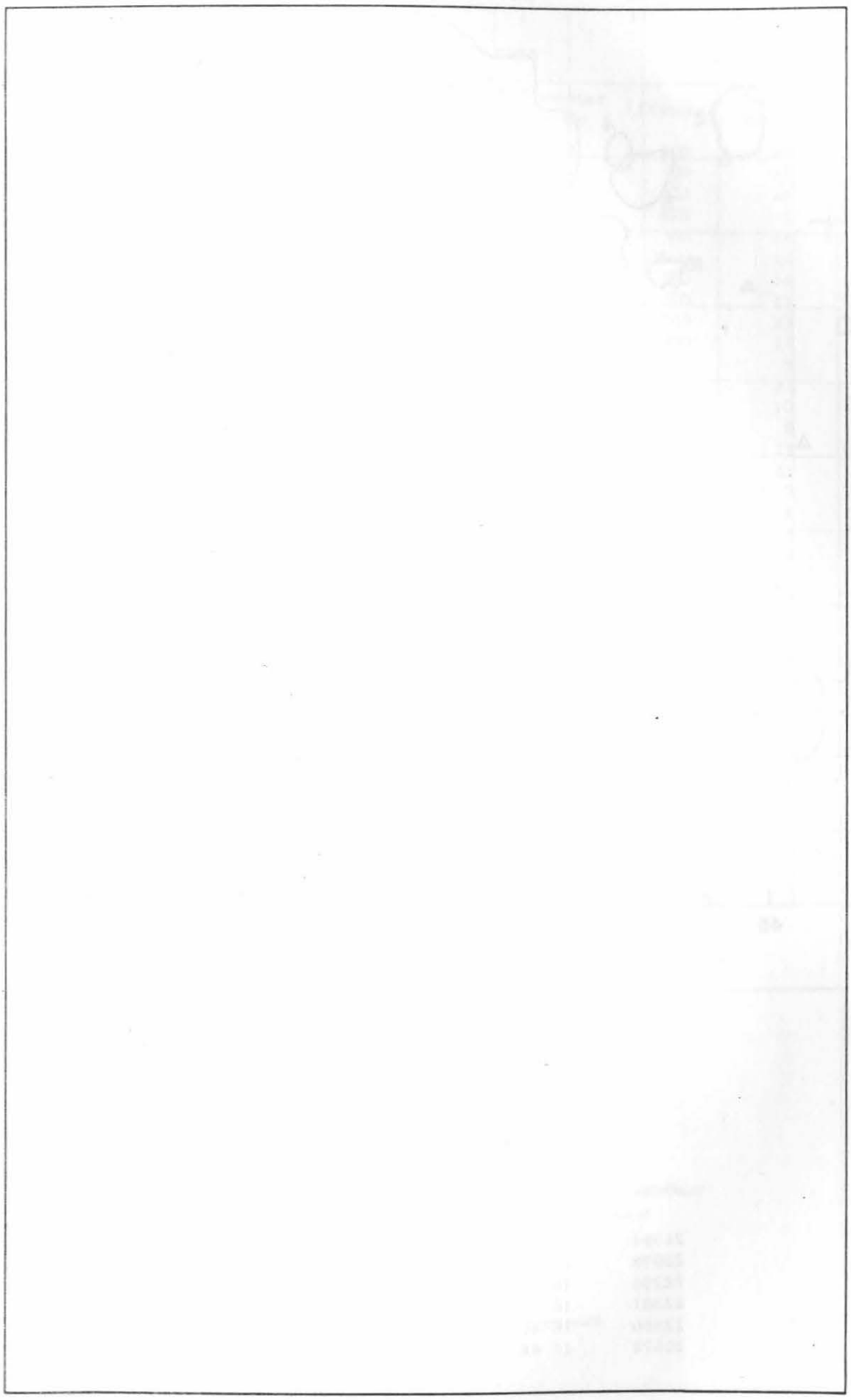
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1549.2 + 3856	compact	64	1.2	ED	6
1554.5 + 3955	medium compact	132	4.8	Near	18
1554.7 + 4301	compact	81	1.4	ED	14
1555.1 + 4146	medium compact	137	10.1	Near	17
1557.1 + 4021	compact	57	1.4	ED	19
1559.0 + 3819	medium compact	99	3.7	D	3
1600.8 + 3804	medium compact	190	7.7	MD	2
1601.3 + 4220	compact	80	1.8	ED	13
1607.6 + 4303	compact	90	1.5	ED	12
1609.3 + 4245	compact	93	1.6	ED	11
1610.5 + 4135	medium compact	91	4.0	VD	16
1611.1 + 4213	compact	66	1.2	ED	10
1612.1 + 4320	compact	102	1.7	ED	9
1612.4 + 4358	medium compact	207	6.3	VD	8
1612.6 + 3832	compact	87	1.3	VD	1
1614.8 + 4230	medium compact	87	1.9	VD	7
1615.4 + 4137	medium compact	133	5.4	MD	15
1619.0 + 4246	medium compact	127	3.7	D	5
1625.5 + 4006	medium compact	686	16.3	Near	4

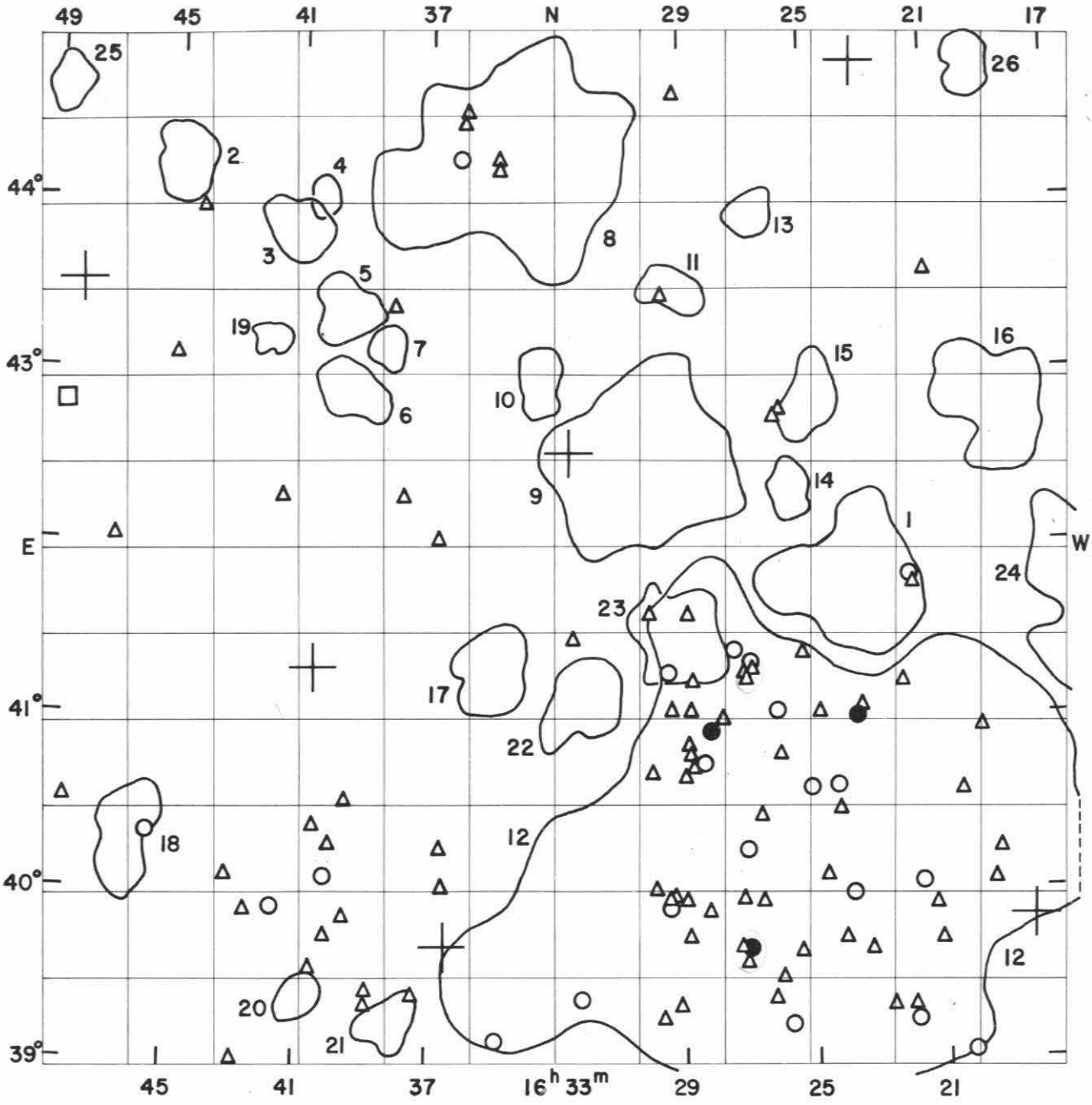
Average number of galaxies per cluster = 137.3

GALAXIES

Position α 1950 δ	NGC IC*	m_p	V_s km/sec	Remarks
h m o '				
15 47.9 + 42 11		15.0		
15 48.1 + 42 08		15.7		
15 48.3 + 42 07		15.5		
15 48.3 + 42 14		15.6		
15 48.4 + 42 27		15.3		
15 49.7 + 43 33	1144*	14.4		
15 51.1 + 40 47	6013	14.6		
15 51.2 + 42 42		15.6		
15 51.6 + 39 32		15.6		
15 51.8 + 41 43		15.3		
15 52.4 + 41 45		15.1		double system
15 53.3 + 41 43		14.9		
15 53.8 + 42 05		15.4		
15 54.1 + 39 55		15.4		
15 54.7 + 42 14		15.7		
15 54.7 + 42 32		15.5		
15 54.8 + 42 02		15.0		
15 54.9 + 42 01		14.3		extremely compact, halo
15 55.6 + 42 02		15.7		
15 56.2 + 40 10		15.2		
15 56.2 + 41 55		15.1		
15 56.2 + 42 04		15.0		
15 57.0 + 42 04		15.1		
15 57.7 + 39 58		15.5		
15 58.2 + 41 37		15.2		
15 58.3 + 41 37		15.3		compact
15 58.9 + 44 04		15.2		
15 59.8 + 42 31		15.7		
16 00.6 + 43 02		14.7		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
16 00.9	+ 41 20		14.5		double system
16 01.2	+ 39 46		14.5		
16 01.9	+ 41 17		15.6		
16 02.1	+ 40 07		14.8		double system
16 02.1	+ 41 39		15.4		
16 02.6	+ 42 09		15.7		
16 03.8	+ 42 45		15.1		
16 04.0	+ 41 27		15.0		faint plume
16 04.0	+ 41 29		13.6		
16 04.0	+ 44 20		15.6		
16 05.5	+ 41 32		15.5		
16 05.7	+ 41 50		15.6		
16 05.9	+ 39 03	6069	15.5		
16 06.0	+ 39 19		15.1		
16 07.5	+ 41 52		15.5		
16 08.1	+ 42 27		15.3		diffuse spiral
16 08.3	+ 43 15		15.4		
16 08.6	+ 41 59		15.2		compact
16 09.0	+ 41 16		15.3		
16 09.1	+ 42 00		14.9		compact
16 10.2	+ 43 50		15.5		
16 11.3	+ 39 22		15.4		double system
16 13.1	+ 39 38		15.7		
16 14.5	+ 42 31		15.2		double system, contact
16 14.9	+ 40 28		15.7		
16 16.4	+ 40 12		15.4		
16 17.0	+ 39 27		15.6		





FIELD No. 224

16^h33^m + 42°00'

Survey Plate No. 743

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
21984	16 18 12.3	+ 39 49 38	5.54
22098	16 23 14.8	+ 44 48 11	7.17
22296	16 32 29.4	+ 42 32 21	4.25
22381	16 36 22.1	+ 39 40 35	6.95
22486	16 40 31.2	+ 41 17 20	7.81
22671	16 48 07.1	+ 43 30 56	6.37

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1615.4 + 4137	medium compact	133	5.4	MD	24
1619.0 + 4246	medium compact	127	3.7	D	16
1619.5 + 4445	medium compact	100	1.5	ED	26
1623.7 + 4145	medium compact	122	4.6	MD	1
1624.9 + 4249	medium compact	172	2.0	VD	15
1625.5 + 4006	medium compact	686	16.3	Near	12
1625.6 + 4217	medium compact	91	1.6	VD	14
1626.7 + 4355	compact	131	1.4	ED	13
1629.0 + 4128	compact	138	3.1	VD	23
1629.2 + 4328	medium compact	107	1.6	ED	11
1630.1 + 4227	medium compact	125	5.7	MD	9
1632.0 + 4105	medium compact	120	2.5	D	22
1633.4 + 4256	compact	106	1.6	ED	10
1634.4 + 4412	medium compact	127	7.0	Near	8
1634.9 + 4115	medium compact	129	2.5	ED	17
1638.1 + 3913	medium compact	99	1.7	ED	21
1638.3 + 4307	medium compact	74	1.2	ED	7
1639.4 + 4253	medium compact	81	2.0	ED	6
1639.6 + 4320	medium compact	84	2.0	VD	5
1640.4 + 4400	compact	89	1.1	ED	4
1640.8 + 3921	compact	103	1.4	VD	20
1641.1 + 4349	medium compact	72	2.0	VD	3
1642.0 + 4310	medium compact	57	1.1	ED	19
1644.9 + 4411	medium compact	111	2.1	VD	2
1646.2 + 4016	medium compact	84	2.5	VD	18
1648.5 + 4440	medium compact	107	1.5	ED	25

Average number of galaxies per cluster = 129.8

GALAXIES

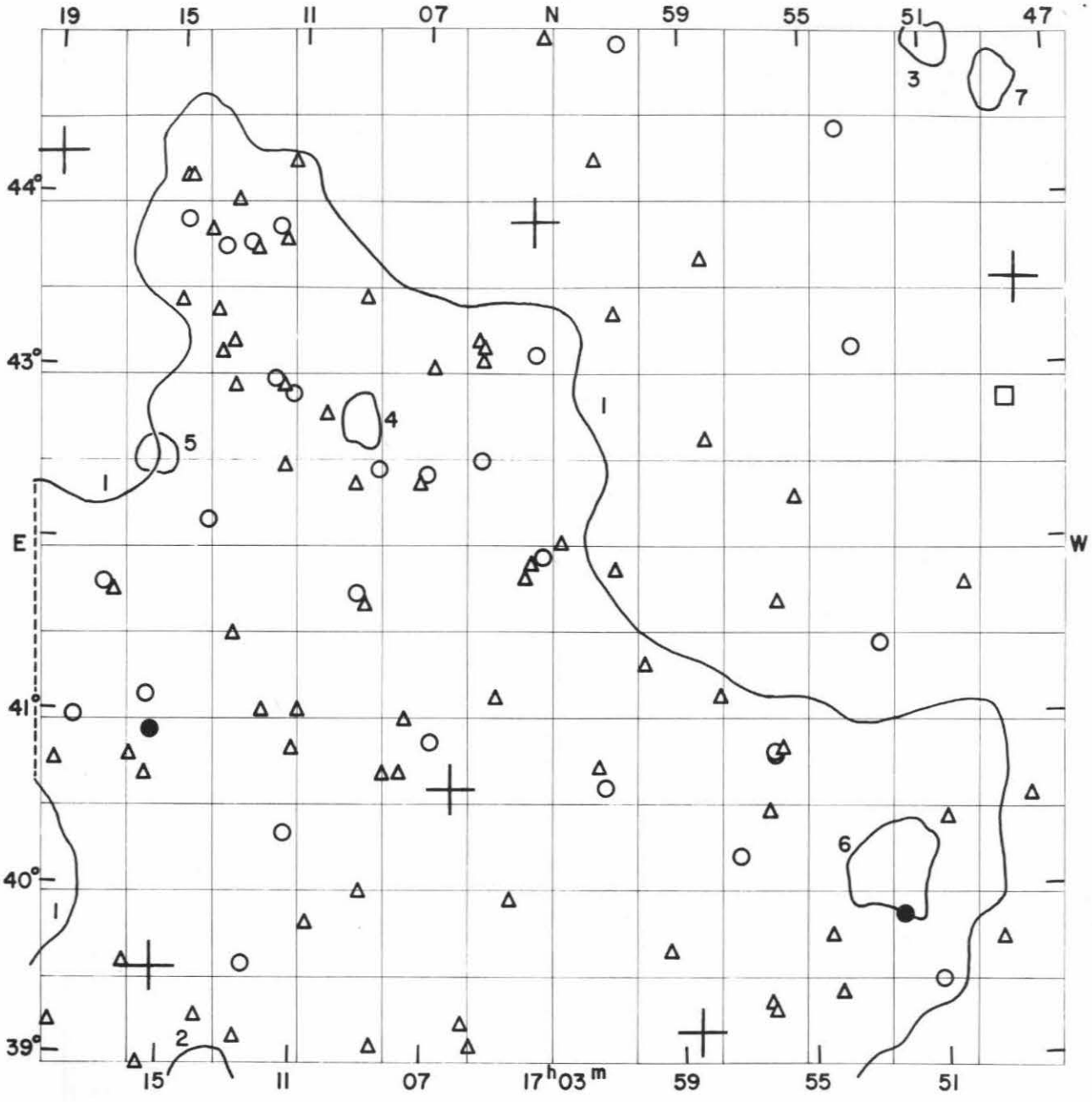
Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
16 19.2	+ 40 14		15.2		
16 19.4	+ 40 03		15.6		
16 19.7	+ 40 56		15.7		diffuse spiral
16 20.2	+ 39 03	6131	14.2		
16 20.3	+ 40 34		15.1		
16 21.0	+ 39 42		15.7		
16 21.0	+ 43 35		15.3		compact
16 21.2	+ 39 55		15.4		
16 21.6	+ 40 02		14.6		
16 21.8	+ 39 15		14.9		
16 21.8	+ 41 46		15.3		
16 21.9	+ 39 20		15.7		
16 21.9	+ 41 50		15.0		
16 22.1	+ 41 12		15.4		extremely compact
16 22.6	+ 39 20		15.6		very compact
16 23.3	+ 39 39		15.6		
16 23.4	+ 41 04	6145	15.1		
16 23.5	+ 41 01	6146	13.8		
16 23.8	+ 39 59		14.9		
16 24.0	+ 39 43		15.4		compact
16 24.2	+ 40 28		15.3		
16 24.2	+ 40 36	6150	14.9		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
16 24.6	+ 40 05		15.2		
16 24.7	+ 41 01		15.7		
16 25.0	+ 40 35		15.0		
16 25.3	+ 41 22		15.2		
16 25.4	+ 39 38		15.3		compact
16 25.6	+ 39 13		14.8		
16 25.8	+ 42 47	6159	15.2		
16 25.9	+ 40 47		15.7		
16 26.0	+ 39 30	6158	15.5		compact
16 26.0	+ 41 02	6160	14.8		
16 26.0	+ 42 45		15.5		
16 26.2	+ 39 22		15.4		double system
16 26.5	+ 39 56		15.5		
16 26.5	+ 40 25		15.5		
16 26.7	+ 41 17		15.3		double system
16 26.8	+ 41 20		14.3		
16 26.9	+ 39 40	6166	13.9		double nucleus
16 27.0	+ 39 35		15.4		double system
16 27.0	+ 40 14		14.9		double system
16 27.0	+ 41 14		15.6		
16 27.0	+ 41 15		15.5		
16 27.1	+ 39 57		15.5		
16 27.2	+ 39 41		15.7		
16 27.4	+ 41 24		14.8		
16 27.7	+ 40 59		15.5		very compact
16 28.1	+ 39 53		15.6		diffuse spiral
16 28.1	+ 40 55	6173	14.0		
16 28.3	+ 40 45	6175	15.0		double nebula
16 28.6	+ 40 43		15.6		
16 28.7	+ 40 47		15.7		compact
16 28.7	+ 41 02		15.7		diffuse
16 28.7	+ 41 13		15.4		diffuse spiral
16 28.8	+ 39 44		15.6		
16 28.8	+ 40 50		15.7		
16 28.9	+ 39 57		15.3		
16 28.9	+ 40 40	6180	15.2		compact
16 28.9	+ 41 36		15.4		
16 29.1	+ 39 20		15.7		
16 29.2	+ 39 58		15.5		
16 29.2	+ 44 38		15.6		
16 29.3	+ 41 02		15.6		very compact
16 29.4	+ 39 54		14.8		double system
16 29.4	+ 39 57		15.6		
16 29.4	+ 41 16		14.8		
16 29.6	+ 39 16		15.5		very compact
16 29.6	+ 43 27		15.4		very diffuse, large spiral
16 29.8	+ 40 00		15.6		compact
16 29.9	+ 40 41	6184	15.1		
16 30.0	+ 41 37		15.6		
16 32.1	+ 39 22	4612*	14.6		
16 32.4	+ 41 27		15.7		
16 34.7	+ 44 10		15.4		
16 34.8	+ 39 08	6195	14.7		
16 34.8	+ 44 14		15.3		
16 35.8	+ 44 31		15.4		
16 35.9	+ 44 27		15.5		
16 36.0	+ 44 14		14.9		
16 36.5	+ 40 01		15.4		
16 36.6	+ 40 15		15.5		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
16 36.7	+ 42 02		15.5		double system
16 37.3	+ 39 23		15.5		
16 37.7	+ 42 17		15.7		
16 38.1	+ 43 22		15.6		
16 38.8	+ 39 20		15.6		
16 38.8	+ 39 25		15.1		compact
16 39.5	+ 39 52		15.4		
16 39.5	+ 40 31		15.7		
16 39.9	+ 40 16		15.1		
16 40.0	+ 39 45		15.2		
16 40.1	+ 40 05		14.8		double system
16 40.4	+ 40 22		15.5		very diffuse spiral
16 40.5	+ 39 33		15.7		
16 41.6	+ 42 16		15.3		
16 41.7	+ 39 54	6212	15.0		compact
16 42.5	+ 39 53		15.1		
16 42.8	+ 39 01		15.6		
16 43.1	+ 40 05		15.6		
16 44.3	+ 43 57		15.7		
16 45.0	+ 43 06		15.5		
16 45.6	+ 40 20		15.0		
16 46.8	+ 42 02		15.6		compact
16 48.2	+ 40 31		15.7		
16 48.5	+ 42 50	6239	12.9	+ 964	m_H = 13.1

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
6239	-	-	12.70	SBb	12.9	SBb	-	-



FIELD No. 225

17^h03^m + 42°00'

Survey Plate No. 1135

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
22671	16 48 07.1	+ 43 30 56	6.37
22936	16 58 24.4	+ 39 10 18	7.22
23073	17 03 33.4	+ 43 52 45	6.36
23128	17 06 08.7	+ 40 34 49	6.27
23352	17 15 14.4	+ 39 31 10	7.37
23455	17 19 00.4	+ 44 14 24	6.94

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1648.5 + 4440	medium compact	107	1.5	ED	7
1650.7 + 4453	compact	98	1.3	ED	3
1652.6 + 4005	compact	102	2.9	VD	6
1707.6 + 4045	open	1021	29.8	Near	1
1709.0 + 4243	compact	63	1.3	VD	4
1713.6 + 3845	medium compact	103	2.9	MD	2
1715.5 + 4229	compact	63	1.2	VD	5

Average number of galaxies per cluster = 222.4

GALAXIES

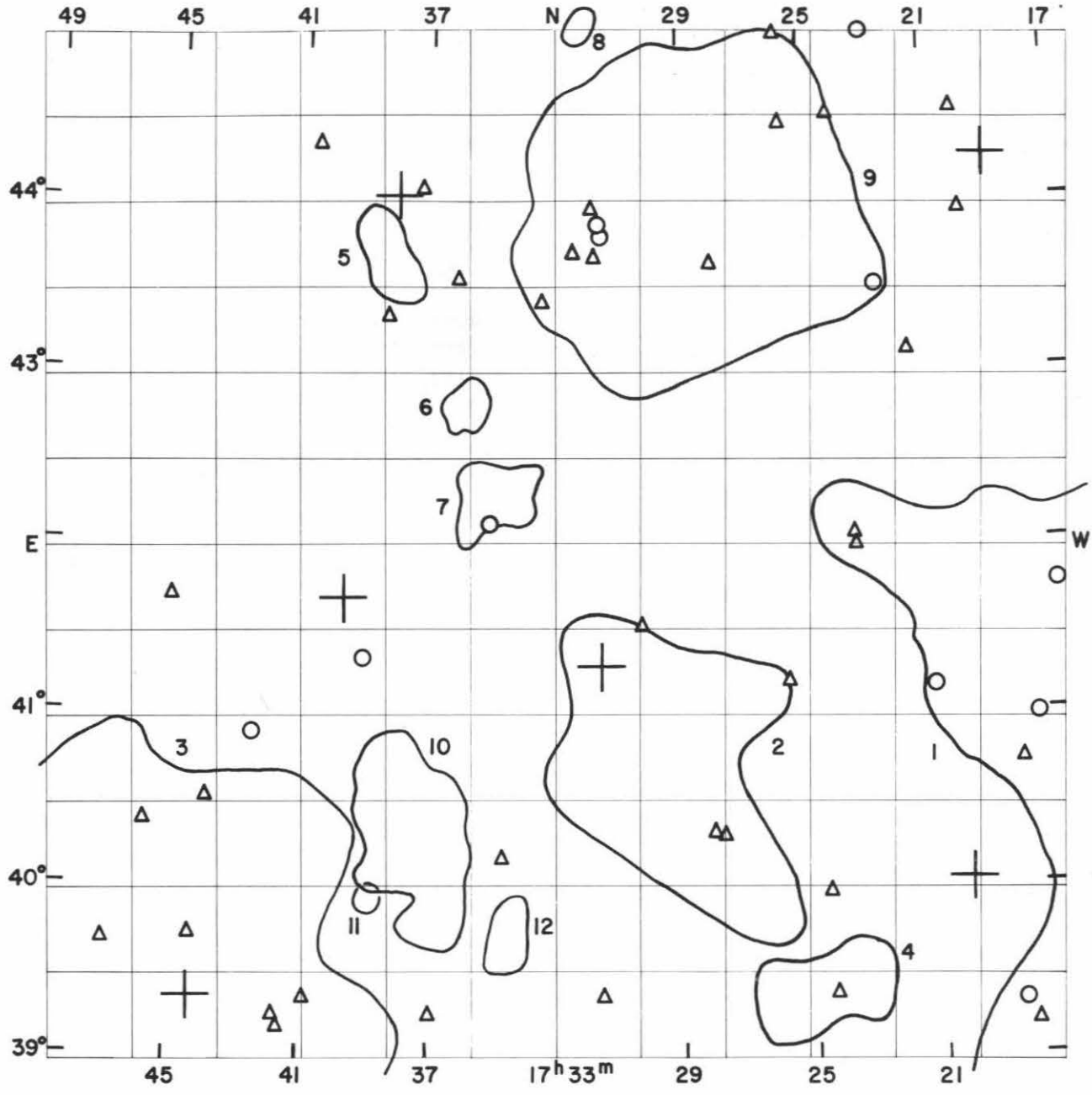
Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
16 48.2	+ 40 31		15.7		
16 48.5	+ 42 50	6239	12.9	+ 964	m_H = 31.1
16 49.2	+ 39 41		15.7		very compact
16 50.1	+ 41 45		15.5		
16 50.8	+ 40 24		15.6		very compact
16 51.0	+ 39 27		15.0		very compact
16 52.2	+ 39 50		13.7		extremely compact
16 52.7	+ 41 25		14.9		
16 53.4	+ 43 08		15.0		double system, twisted streamers
16 53.8	+ 44 24		14.8		
16 54.1	+ 39 23		15.7		diffuse spiral
16 54.4	+ 39 43	6257	15.6		
16 55.3	+ 42 16		15.7		
16 55.8	+ 40 49		15.4		
16 55.9	+ 41 40		15.4		double system
16 56.0	+ 40 47		14.8		compact
16 56.0	+ 40 48		14.9		compact
16 56.1	+ 39 18		15.7		
16 56.2	+ 39 20		15.6		very compact
16 56.3	+ 40 27		15.6		
16 57.2	+ 40 12		14.9		compact
16 57.7	+ 41 07		15.5		compact
16 58.2	+ 42 37		15.6		diffuse spiral
16 58.2	+ 43 40		15.7		
16 59.3	+ 39 39		15.1		compact
17 00.1	+ 41 18		15.4		
17 00.8	+ 44 55		15.0		compact
17 00.9	+ 41 51		15.6		very compact
17 01.0	+ 43 20		15.5		compact
17 01.3	+ 40 36		14.7		extremely compact
17 01.5	+ 40 43		15.1		
17 01.6	+ 44 14		15.7		diffuse
17 02.7	+ 42 00		15.5		
17 03.3	+ 41 56		14.2		
17 03.3	+ 44 57		15.7		
17 03.5	+ 43 06		14.9		double system
17 03.7	+ 41 54		15.6		
17 03.9	+ 41 49		15.7		
17 04.3	+ 39 57		15.5		diffuse spiral
17 04.8	+ 41 07		15.6		diffuse spiral
17 05.1	+ 43 09		15.6		

Position α 1950 δ		NGC IC*	m_p	V_s km/sec	Remarks
h m	o '				
17 05.2	+42 30		14.8		compact
17 05.2	+43 04		15.3		star superposed
17 05.3	+43 11		15.2		
17 05.5	+39 05		15.5		compact
17 05.8	+39 14		15.5		
17 06.8	+40 52		14.7		compact
17 06.8	+43 01		15.4		compact
17 07.0	+42 24	4643*=6301	14.6		
17 07.2	+42 21		15.5		
17 07.6	+41 00		15.2		
17 07.7	+40 41		15.5		
17 08.2	+40 40		15.2		
17 08.5	+39 05		15.5		very compact
17 08.5	+42 26		15.0		
17 08.8	+41 40		15.7		very compact
17 08.9	+40 00		15.1		compact
17 08.9	+43 26		15.5		
17 09.0	+41 43	6311	14.9		
17 09.2	+42 21	6312	15.3		compact
17 10.1	+42 45		15.1		
17 10.6	+39 48		15.6		diffuse
17 10.9	+41 02		15.7		
17 11.1	+40 49		15.6		
17 11.2	+42 52		14.5		compact
17 11.2	+44 13		15.3		
17 11.3	+40 20	6320	14.9		
17 11.5	+42 27		15.4		
17 11.5	+42 55		15.6		very compact
17 11.5	+43 45		15.4		
17 11.7	+43 50	6323	14.8		
17 11.8	+42 57		15.0		
17 12.0	+41 01		15.4		
17 12.4	+43 42	6327	15.7		compact
17 12.5	+39 34		15.0		very compact
17 12.7	+39 08		15.6		
17 12.7	+43 45	6329	14.3		
17 13.0	+41 28		15.5		
17 13.1	+42 55		15.5		compact
17 13.1	+43 10	4645*	15.7		
17 13.1	+43 59		15.5		
17 13.4	+43 43	6332	14.6		
17 13.5	+43 06		15.7		
17 13.7	+43 20		15.1		
17 13.8	+39 15		15.6		
17 13.8	+42 08		14.6		compact
17 13.9	+43 49		15.5		
17 14.6	+44 07		15.4		
17 14.7	+43 52	6336	14.5		
17 14.8	+44 07		15.7		compact
17 14.9	+43 24		15.3		
17 15.5	+40 54	6339	13.7		
17 15.6	+38 57		15.5		
17 15.7	+40 39		15.4		compact
17 15.7	+41 07	6343	14.7		compact
17 16.1	+39 33		15.4		
17 16.1	+40 45		15.5		
17 16.8	+41 43	6348	15.6		
17 17.1	+41 45	6350	14.3		
17 17.9	+40 59		15.0		

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
17 18.3	+39 12		15.6		
17 18.5	+40 43		15.6		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
6239	-	-	12.70	SBb	12.9	SBb	-	-



FIELD No. 226

17^h33^m + $42^o00'$

Survey Plate No. 753

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
23455	17 19 00.4	+ 44 14 24	6.94
23487	17 20 05.0	+ 40 01 21	5.72
23807	17 31 32.0	+ 41 16 40	5.82
23964	17 38 01.1	+ 44 01 36	7.19
24003	17 39 39.3	+ 41 40 43	6.97
24131	17 44 19.3	+ 39 20 25	6.56

CLUSTERS OF GALAXIES

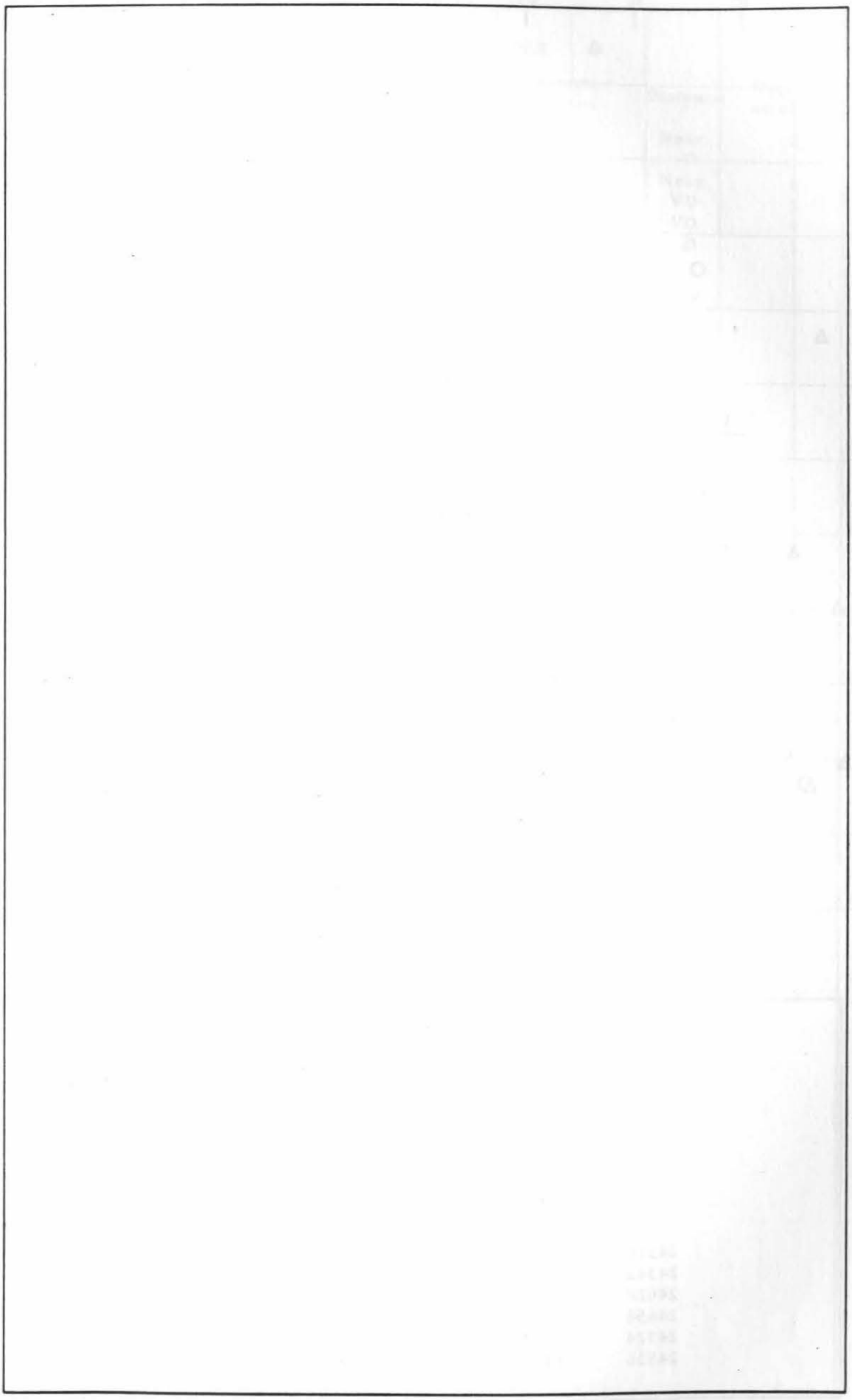
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1707.6 + 4045	open	1021	29.8	Near	1
1724.8 + 3921	medium compact	98	3.6	D	4
1728.5 + 4353	medium compact	157	11.2	Near	9
1729.3 + 4039	medium compact	158	8.1	Near	2
1732.1 + 4500	compact	47	1.0	ED	8
1734.5 + 3942	medium compact	127	1.8	ED	12
1734.9 + 4215	medium compact	69	2.5	VD	7
1735.8 + 4248	compact	104	1.5	ED	6
1737.4 + 4016	medium compact	134	4.9	D	10
1738.2 + 4340	compact	156	2.3	VD	5
1738.8 + 3956	compact	55	0.8	ED	11
1744.5 + 3846	open	205	16.8	Near	3

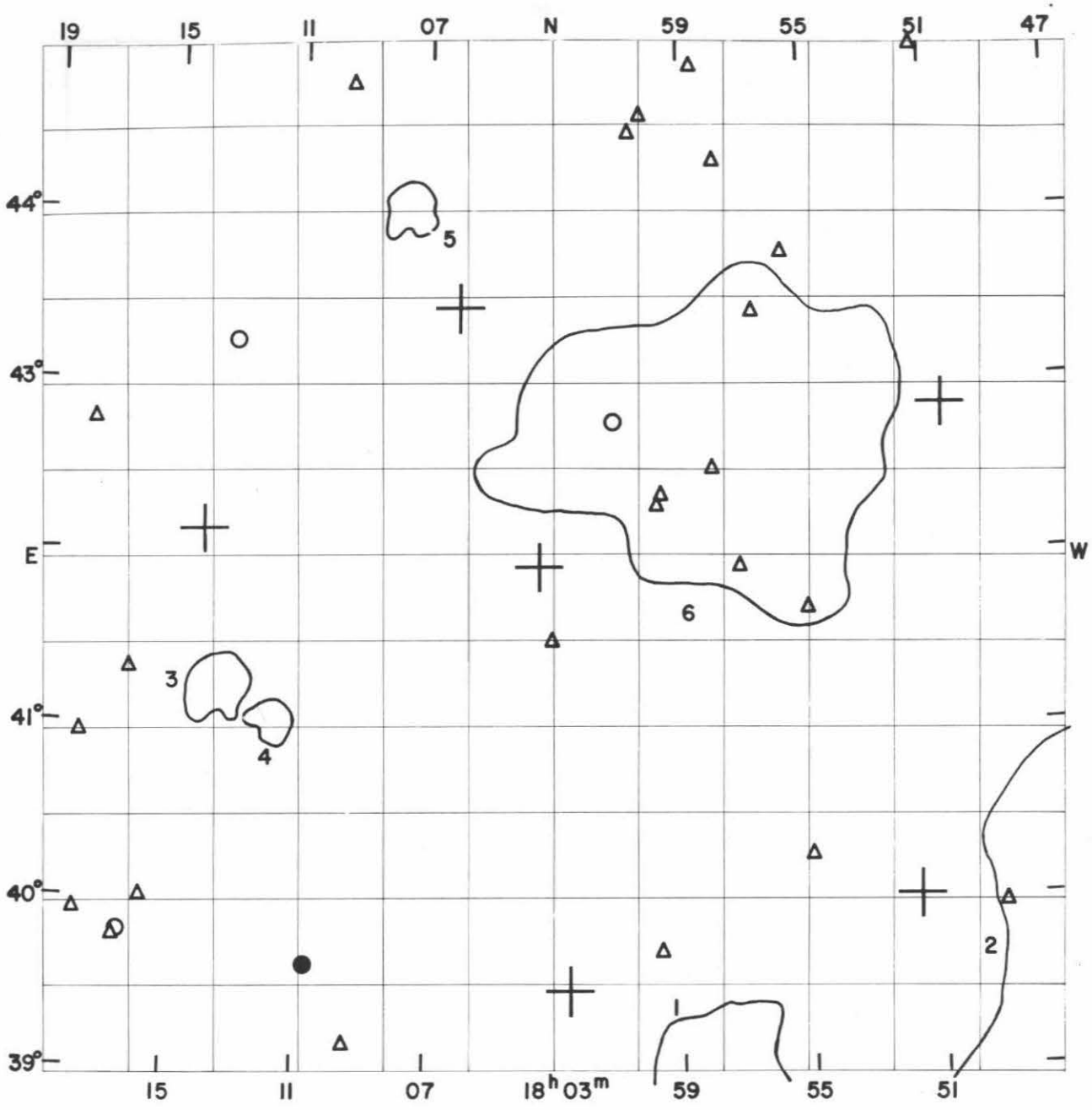
Average number of galaxies per cluster = 194.3

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
17 17.1	+ 41 45	6350	14.3		
17 17.9	+ 40 59		15.0		
17 18.3	+ 39 12		15.6		
17 18.5	+ 40 43		15.6		
17 18.7	+ 39 19		14.6		
17 19.9	+ 43 56		15.1		
17 20.1	+ 44 31		15.5		
17 21.1	+ 41 10	6363	14.5		
17 21.7	+ 43 07		15.7		
17 22.7	+ 43 30		15.0		
17 23.0	+ 45 00		14.4		
17 23.5	+ 41 59		15.3		
17 23.5	+ 42 03		15.5		double system
17 24.2	+ 44 30		15.6		
17 24.4	+ 39 22		15.2		
17 24.5	+ 39 58		15.5		
17 25.7	+ 41 12		15.6		
17 25.8	+ 44 27		15.3		double system
17 25.9	+ 44 58		15.5		very compact
17 27.7	+ 40 18		15.7		compact
17 28.0	+ 40 19		15.6		compact
17 28.1	+ 43 38		15.4		
17 30.3	+ 41 31		15.7		compact
17 31.5	+ 39 21		15.7		
17 31.5	+ 43 47	1262*	14.9		
17 31.6	+ 43 51	1263*	14.8		
17 31.8	+ 43 40	1264*	15.6		
17 31.9	+ 43 57		15.5		
17 32.5	+ 43 42		15.7		compact
17 33.4	+ 43 25		15.7		
17 34.7	+ 40 10		15.4		
17 35.1	+ 42 07	1265*	14.3		
17 36.1	+ 43 33		15.7		
17 36.9	+ 39 15		15.4		long jet
17 37.3	+ 44 05		15.7		
17 38.3	+ 43 20		15.2		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
17 39.0	+ 41 20		14.8		
17 40.6	+ 44 20		15.6		
17 40.8	+ 39 21		15.3		
17 41.6	+ 39 11		15.5		
17 41.7	+ 39 15		15.5		
17 42.5	+ 40 53		15.0		
17 43.9	+ 40 31		15.6		compact
17 44.3	+ 39 43		15.2		compact
17 45.0	+ 41 42		15.7		
17 45.8	+ 40 22		15.5		compact
17 47.0	+ 39 40		15.4		





FIELD No. 227

18^h03^m + $42^o00'$

Survey Plate No. 324

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
24316	17 50 37.3	+ 42 52 04	7.66
24342	17 51 40.3	+ 40 00 59	5.12
24628	18 02 28.1	+ 39 28 36	7.46
24658	18 03 27.1	+ 41 56 24	6.42
24724	18 05 58.3	+ 43 27 16	5.11
24936	18 14 05.3	+ 42 08 28	5.42

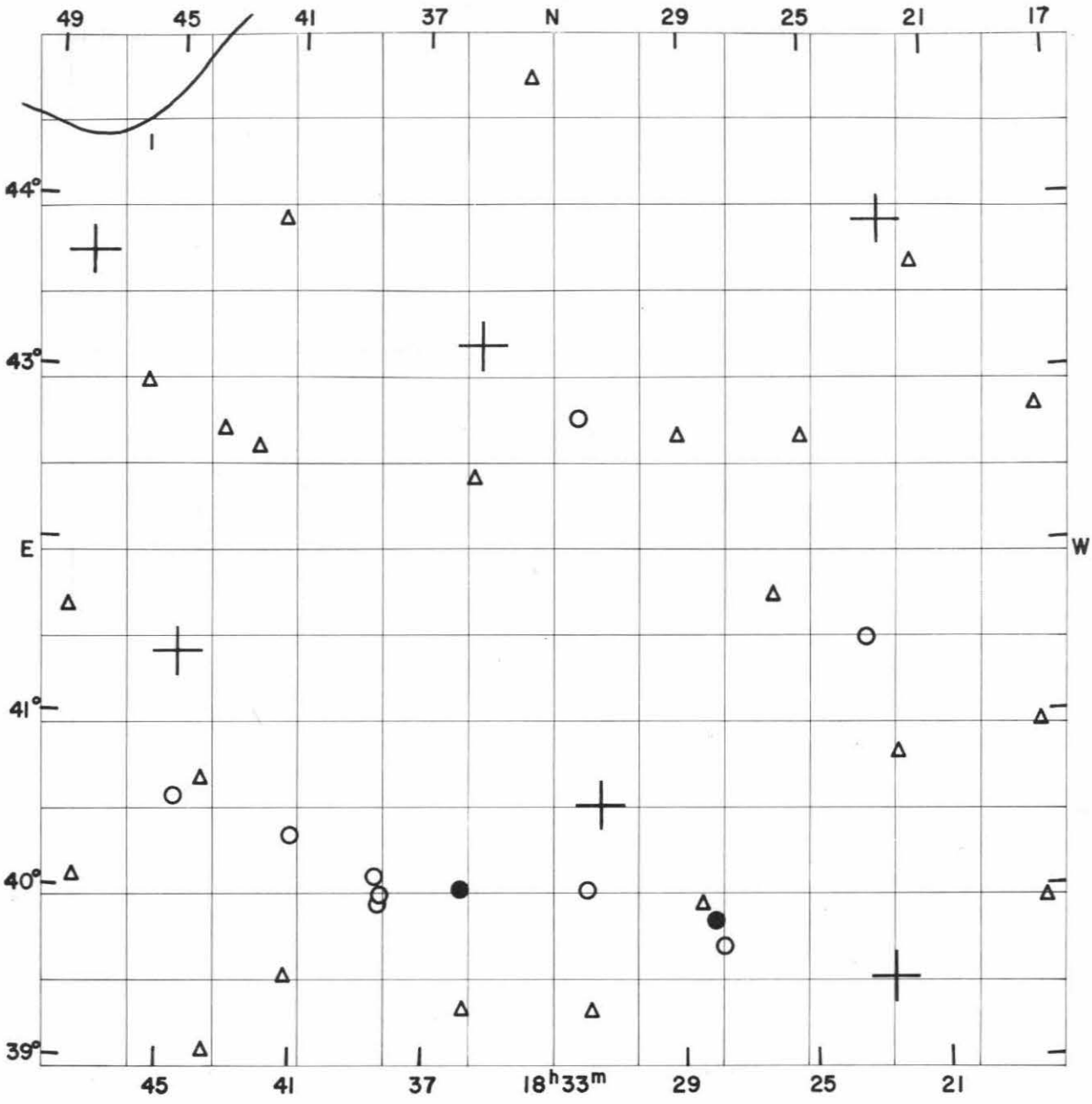
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1744.5 + 3846	open	205	16.8	Near	2
1757.8 + 3842	open	97	6.1	D	1
1757.9 + 4238	open	155	11.1	Near	6
1807.6 + 4400	medium compact	73	1.6	VD	5
1811.7 + 4100	compact	74	1.4	VD	4
1813.5 + 4113	medium compact	77	2.0	D	3

Average number of galaxies per cluster = 113.5

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
17 49.0	+ 39 58		15.6		very compact
17 51.2	+ 44 59		15.5		
17 55.0	+ 40 15		15.5		very compact
17 55.0	+ 41 42		15.7		
17 55.7	+ 43 45		15.7		compact
17 56.6	+ 43 25		15.6		compact
17 57.1	+ 41 56		15.6		
17 57.9	+ 44 17		15.4		compact
17 58.0	+ 42 31		15.7		double system, jet
17 58.5	+ 44 51		15.3		
17 59.6	+ 39 42		15.4		
17 59.6	+ 42 21		15.6		extremely compact
17 59.8	+ 42 17		15.7		
18 00.2	+ 44 34		15.7		system with jet
18 00.5	+ 44 28		15.6		compact
18 01.1	+ 42 47		15.0		double system
18 03.0	+ 41 30		15.6		
18 09.4	+ 39 10		15.4		
18 09.5	+ 44 45		15.3		compact
18 10.7	+ 39 37	6585	13.6		
18 13.1	+ 43 15	6606	14.4		
18 15.7	+ 40 01		15.2		
18 16.3	+ 41 20		15.6		
18 16.4	+ 39 48		15.0		
18 16.5	+ 39 46		15.5		
18 17.7	+ 42 46		15.5		diffuse spiral
18 17.8	+ 39 56		15.7		
18 17.8	+ 40 57		15.4		double system



FIELD No. 228

18^h33^m + 42°00'

Survey Plate No. 1445

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
25134	18 22 30.1	+ 43 52 46	7.05
25137	18 22 34.9	+ 39 28 44	5.04
25359	18 31 31.1	+ 40 29 35	7.00
25464	18 35 13.7	+ 43 10 42	6.26
25732	18 44 37.0	+ 41 23 12	5.88
25834	18 47 49.3	+ 43 40 31	6.79

CLUSTERS OF GALAXIES

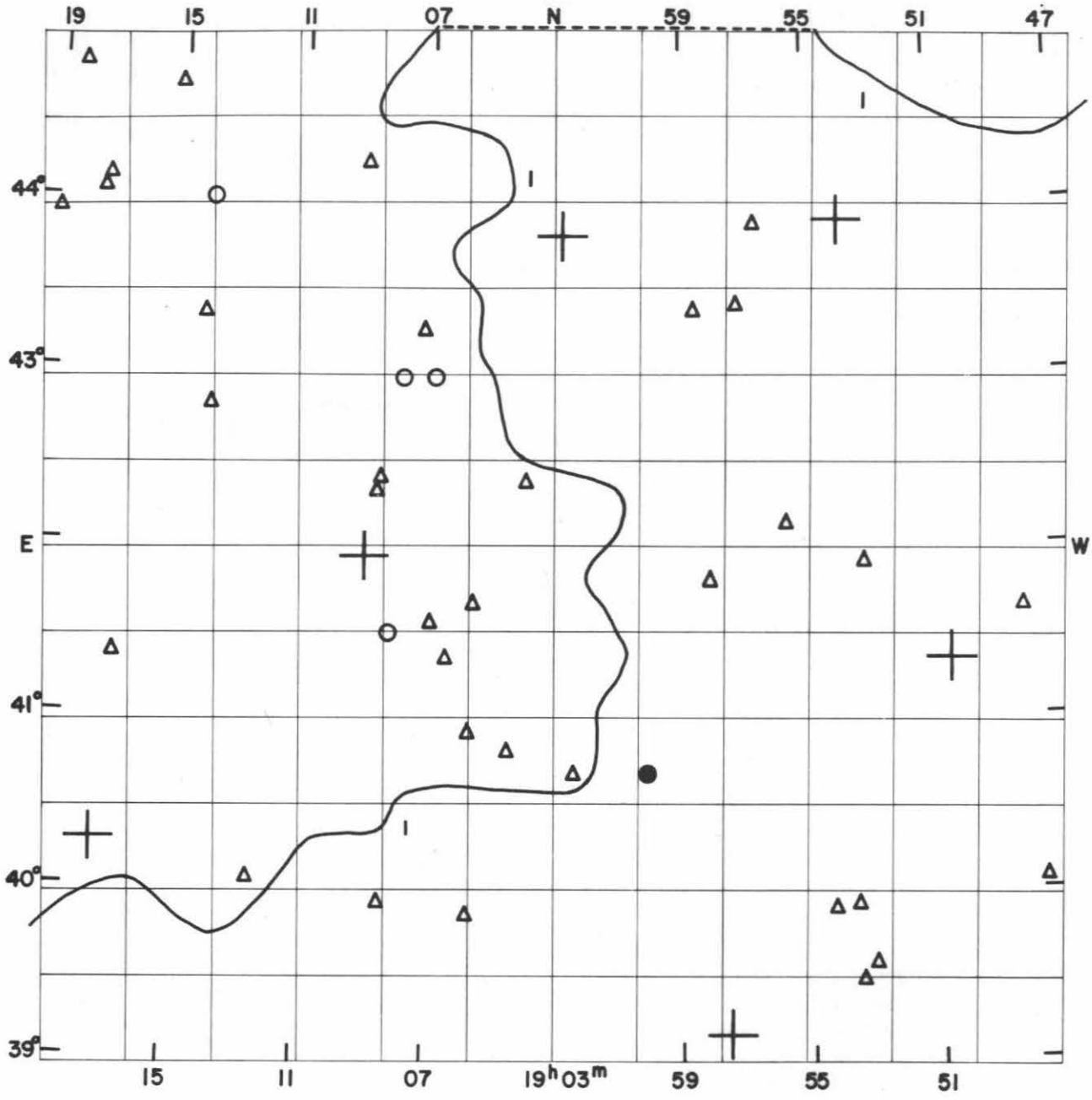
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1916.8 + 4855	medium compact	3755	73.7	Near	1*

Average number of galaxies per cluster = 3755.0

*) see special map on page 386

GALAXIES

Position α 1950 δ		NGC IC*	m_p	V_s km/sec	Remarks
h m	o '				
18 17.7	+42 46		15.5		diffuse spiral
18 17.8	+39 56		15.7		
18 17.8	+40 57		15.4		double system
18 21.5	+43 38		15.7		
18 22.3	+40 47		15.6		
18 23.2	+41 28		14.5		
18 25.1	+42 39		15.1		
18 26.0	+41 44		15.4		diffuse spiral
18 27.8	+39 41	1288*	14.3		
18 28.0	+39 50	6646	13.7		
18 28.4	+39 56	1289*	15.3		
18 29.0	+42 40		15.5		very diffuse
18 31.8	+39 19		15.7		very compact
18 31.9	+40 01	6663	14.8		
18 32.2	+42 46	6672	14.9		compact, faint plume
18 33.8	+44 44		15.5		extremely compact
18 35.5	+42 25		15.2		
18 35.8	+39 20		15.5		compact, jets
18 35.8	+40 02	6675	13.3		
18 38.2	+40 00	6685	15.0		compact
18 38.3	+39 57	4772*	14.7		
18 38.5	+40 06	6686	14.9		compact
18 41.1	+40 20	6695	14.3		
18 41.2	+39 30		15.5		
18 41.6	+43 54		15.3		compact
18 42.3	+42 35		15.5		
18 43.4	+42 40		15.3		compact
18 43.6	+39 03		15.6		
18 43.9	+40 39		15.4		
18 44.7	+40 32		15.0		
18 45.9	+42 56		15.6		
18 47.8	+40 04		15.7		compact
18 48.2	+41 37		15.3		



FIELD No. 229

19^h03^m + 42°00'

Survey Plate No. 340

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
25906	18 50 30.8	+ 41 19 17	6.20
25996	18 53 48.7	+ 43 52 45	Var.
26095	18 57 31.2	+ 39 08 50	6.25
26252	19 02 43.9	+ 43 48 13	6.78
26433	19 08 57.5	+ 41 56 19	7.13
26653	19 17 17.7	+ 40 16 02	6.70

CLUSTERS OF GALAXIES

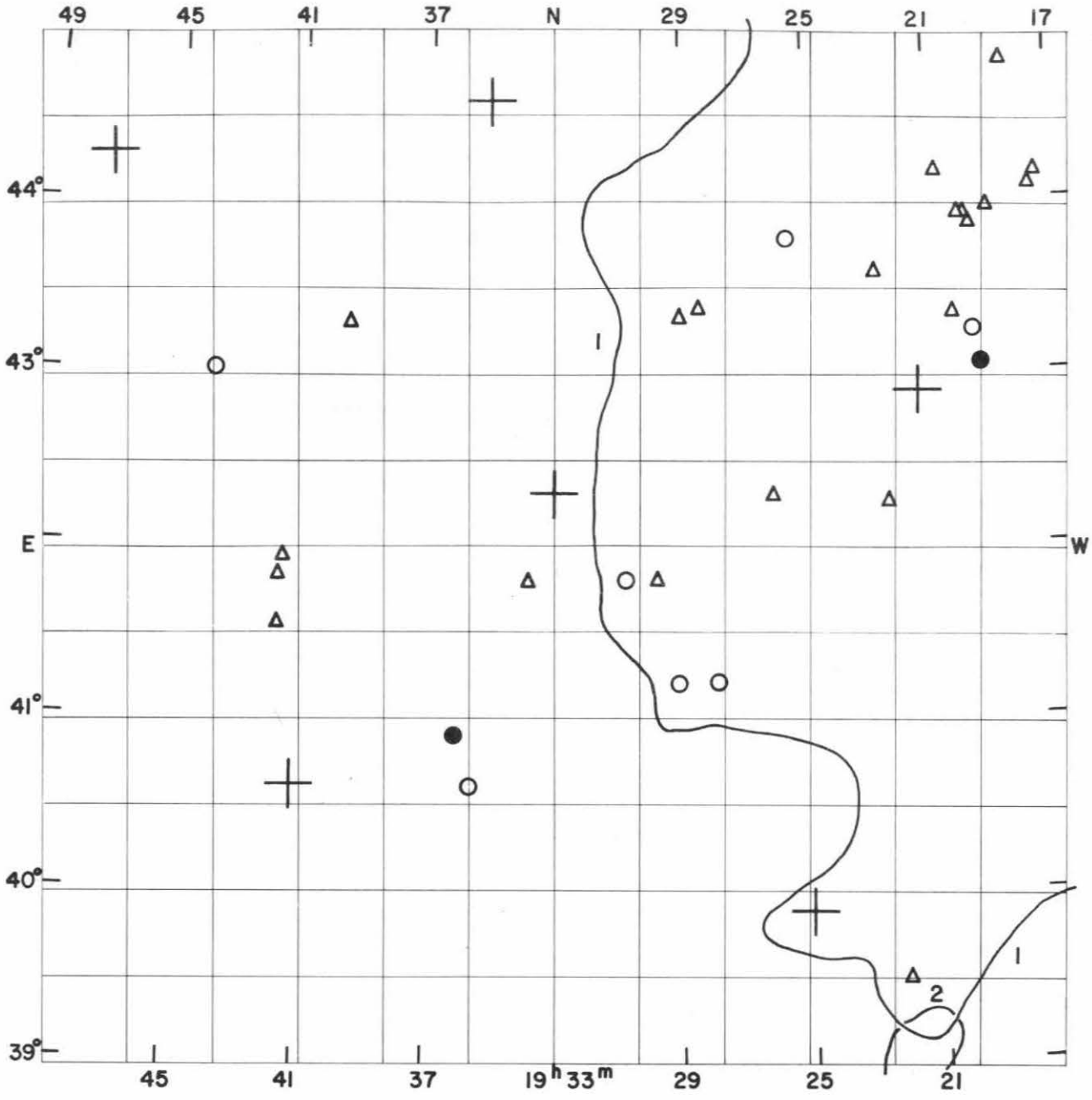
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1916.8 + 4855	medium compact	3755	73.7	Near	1*

Average number of galaxies per cluster = 3755.0

*) see special map on page 386

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
18 47.8	+ 40 04		15.7		compact
18 48.2	+ 41 37		15.3		
18 53.0	+ 39 33		15.5		
18 53.2	+ 41 54		15.3		
18 53.4	+ 39 28		15.3		
18 53.6	+ 39 54		15.7		
18 54.3	+ 39 53		15.5		diffuse
18 55.6	+ 42 08		15.6		
18 56.6	+ 43 52		15.1		
18 57.1	+ 43 24		15.4		
18 58.0	+ 41 48		15.7		
18 58.6	+ 43 22		15.3		diffuse
19 00.0	+ 40 41	6745	13.3		triple system, bridges + plumes
19 02.4	+ 40 41		15.6		compact
19 03.9	+ 42 23		15.4		
19 04.5	+ 40 49		15.7		diffuse spiral
19 05.5	+ 41 41		15.6		diffuse spiral
19 05.7	+ 39 51		15.5		compact
19 05.7	+ 40 55		15.5		
19 06.4	+ 41 21		15.4		
19 06.8	+ 43 00		14.7		
19 06.9	+ 41 34		15.2		
19 07.2	+ 43 16		15.2		
19 07.8	+ 42 59		14.8		
19 08.2	+ 41 30		14.9		
19 08.4	+ 39 56		15.4		
19 08.5	+ 42 24		15.7		compact
19 08.6	+ 42 19		15.7		
19 09.0	+ 44 13		15.6		
19 12.5	+ 40 05		15.7		very diffuse spiral
19 13.9	+ 42 49		15.1		
19 14.0	+ 44 01		14.6		
19 14.2	+ 43 21		15.7		
19 15.2	+ 44 42		15.5		
19 16.8	+ 41 21		15.7		
19 17.4	+ 44 08		15.7		double system, bridge
19 17.6	+ 44 04		15.4		
19 18.4	+ 44 48		15.1		
19 19.0	+ 43 57		15.6		very compact



FIELD No. 230

19^h33^m $+42^\circ00'$

Survey Plate No. 281

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
26767	19 21 24.8	+ 42 52 35	6.92
26866	19 25 02.5	+ 39 51 35	7.22
27070	19 33 03.3	+ 42 18 08	5.29
27140	19 35 04.9	+ 44 35 00	5.16
27298	19 41 14.3	+ 40 36 06	6.72
27447	19 47 25.2	+ 44 15 09	7.5

CLUSTERS OF GALAXIES

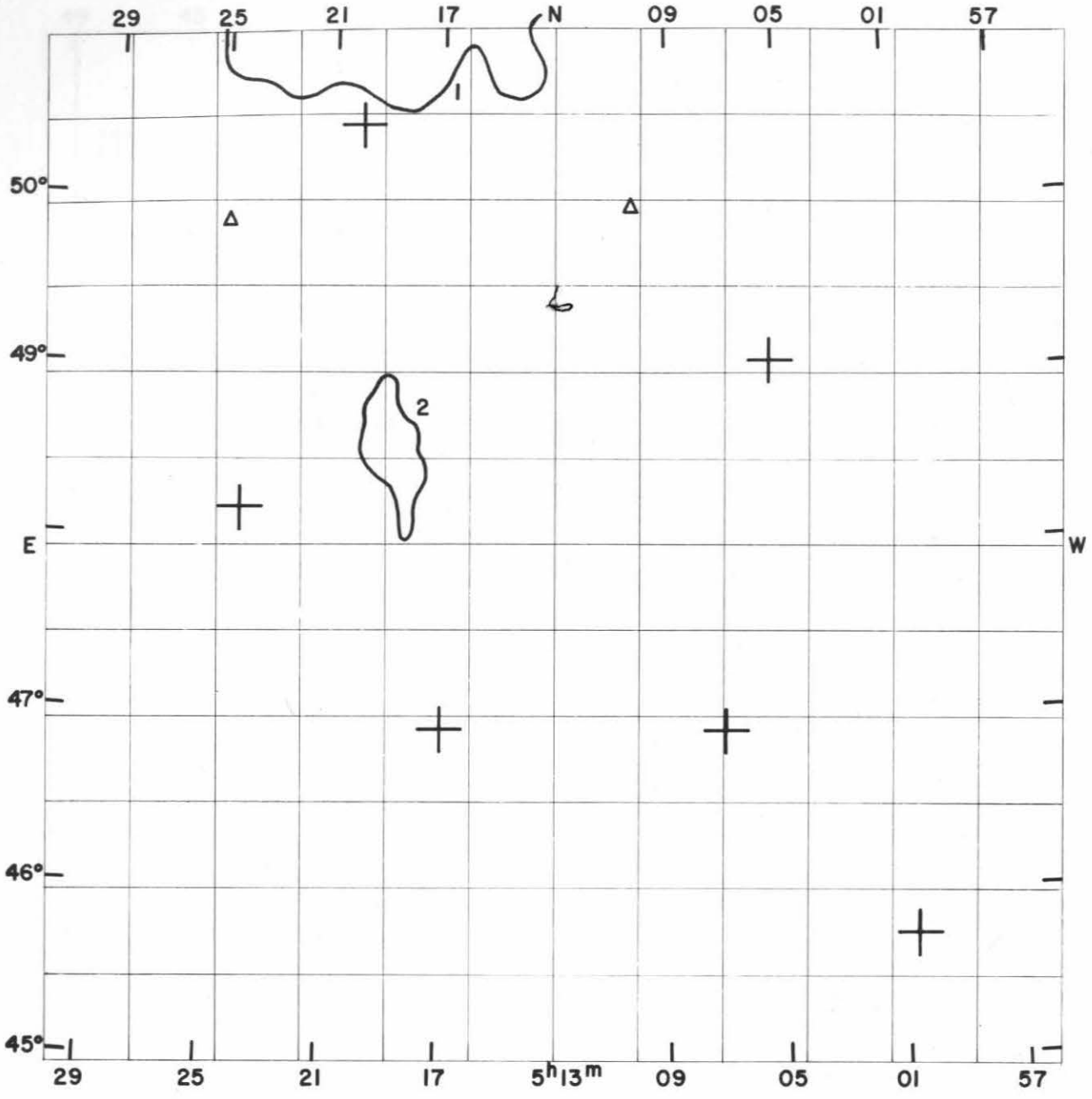
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1916.8 + 4855	medium compact	3755	73.7	Near	1*
1921.9 + 3901	medium compact	67	2.6	MD	2

Average number of galaxies per cluster = 1911.0

*) see special map on page 386

GALAXIES

Position α 1950 δ	NGC IC*	m_p	V_s km/sec	Remarks
h m o '				
19 17.4 + 44 08		15.7		double system, bridge
19 17.6 + 44 04		15.4		
19 18.4 + 44 48		15.1		
19 19.0 + 43 57		15.6		very compact
19 19.4 + 43 02	6792	13.4		
19 19.6 + 43 14		14.5		
19 19.6 + 43 52		15.3		triple system, halo
19 19.8 + 43 55		15.7		
19 20.0 + 43 55		15.4		
19 20.2 + 43 20		15.7		compact
19 20.7 + 44 10		15.4		very compact
19 22.1 + 39 28		15.1		
19 22.4 + 42 14		15.2		
19 22.7 + 43 35		15.5		
19 25.6 + 43 46		14.9		
19 26.0 + 42 17		15.7		
19 27.9 + 41 13		14.2		
19 28.4 + 43 22		15.6		
19 29.0 + 43 19		15.4		
19 29.1 + 41 13		14.6		
19 29.8 + 41 48		15.6		compact
19 30.8 + 41 48		14.8		
19 33.9 + 41 47		15.6		
19 35.7 + 40 36		14.4		
19 36.2 + 40 53		14.0		
19 39.5 + 43 18		15.2		
19 41.6 + 41 55		15.5		
19 41.7 + 41 32		15.3		
19 41.7 + 41 49		15.3		
19 43.9 + 43 01		14.6		



FIELD No. 231

5^h13^m + 48°00'

Survey Plate No. 224

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
6170	5 00 36.1	+ 45 42 40	6.53
6272	5 05 15.6	+ 49 03 29	6.63
6311	5 06 59.2	+ 46 54 09	5.59
6520	5 16 55.2	+ 46 54 51	6.48
6604	5 20 00.1	+ 50 25 24	8.9
6709	5 24 07.0	+ 48 11 09	6.71

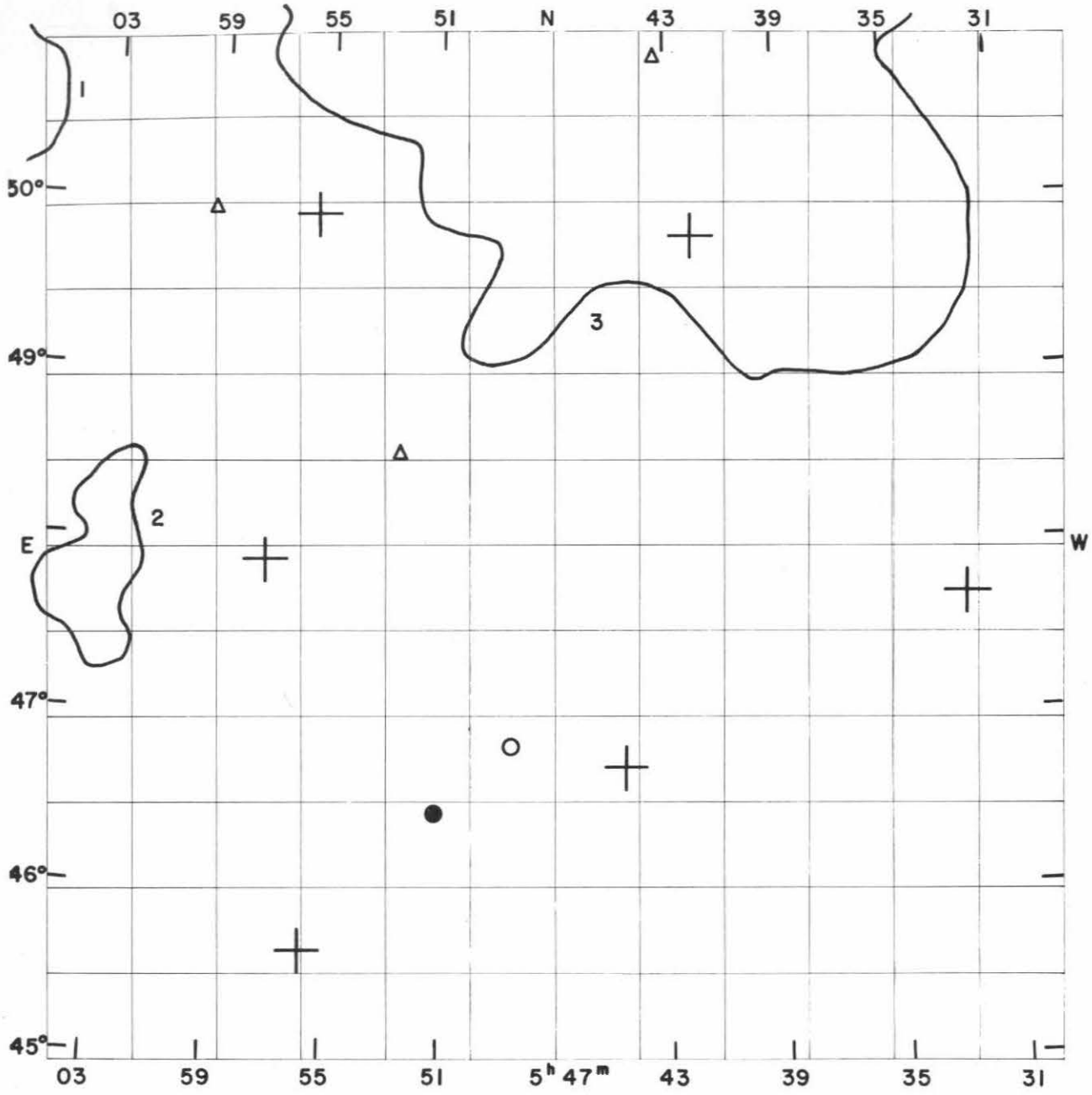
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0517.8 + 5108	medium compact	108	8.4	Near	1
0518.7 + 4832	compact	71	2.6	MD	2

Average number of galaxies per cluster = 89.5

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
5 10.2	+49 57		15.4		compact
5 24.8	+49 50		15.5		



FIELD No. 232

5^h47^m $+48^\circ00'$

Survey Plate No. 637

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
6922	5 32 29.2	+ 47 41 05	6.05
7182	5 42 01.5	+ 49 48 24	5.52
7240	5 44 30.1	+ 46 42 20	7.10
7523	5 55 28.7	+ 49 55 17	6.07
7534	5 55 43.1	+ 45 37 00	6.60
7580	5 57 10.9	+ 47 54 04	5.68

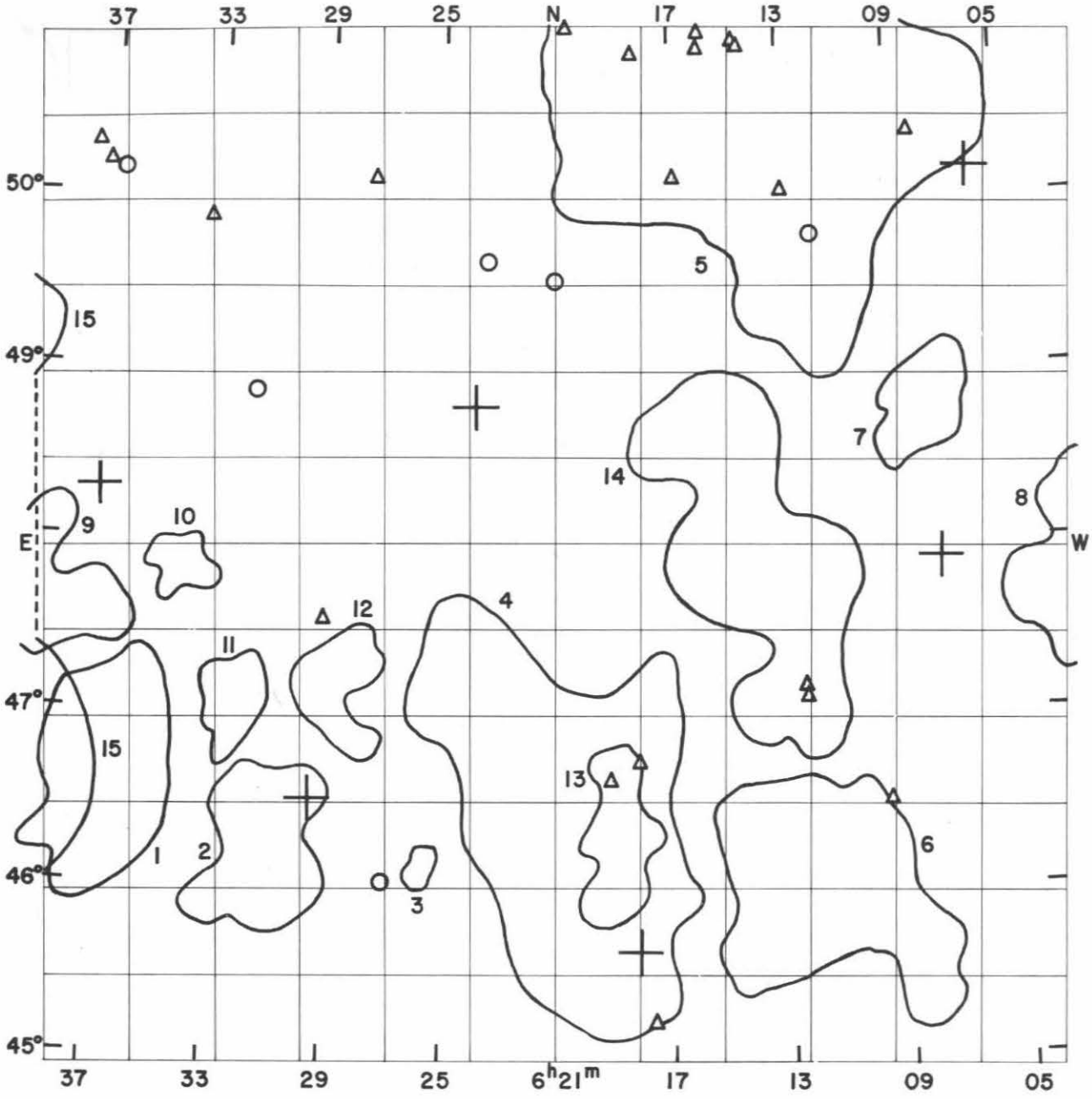
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0544.4 + 5036	open	230	17.7	Near	3
0603.0 + 4746	medium compact	110	4.3	D	2
0628.9 + 5232	open	785	28.6	Near	1

Average number of galaxies per cluster = 375.0

GALAXIES

Position α 1950 δ	NGC IC*	m_p	V_s km/sec	Remarks
h m o '				
5 43.3 + 50 50		15.6		compact
5 48.5 + 46 49		14.8		triple system, bridges
5 51.1 + 46 26		13.9		double system, connected
5 52.4 + 48 31		15.7		diffuse spiral
5 59.2 + 49 55		15.5		compact



FIELD No. 233

6^h21^m $+48^\circ00'$

Survey Plate No. 225

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
7811	6 06 05.7	+ 50 09 53	8.6
7846	6 07 28.2	+ 47 55 06	6.84
8157	6 18 03.7	+ 45 38 09	7.37
8326	6 23 48.7	+ 48 48 27	7.29
8487	6 29 26.2	+ 46 30 51	6.78
8695	6 37 03.1	+ 48 18 09	8.2

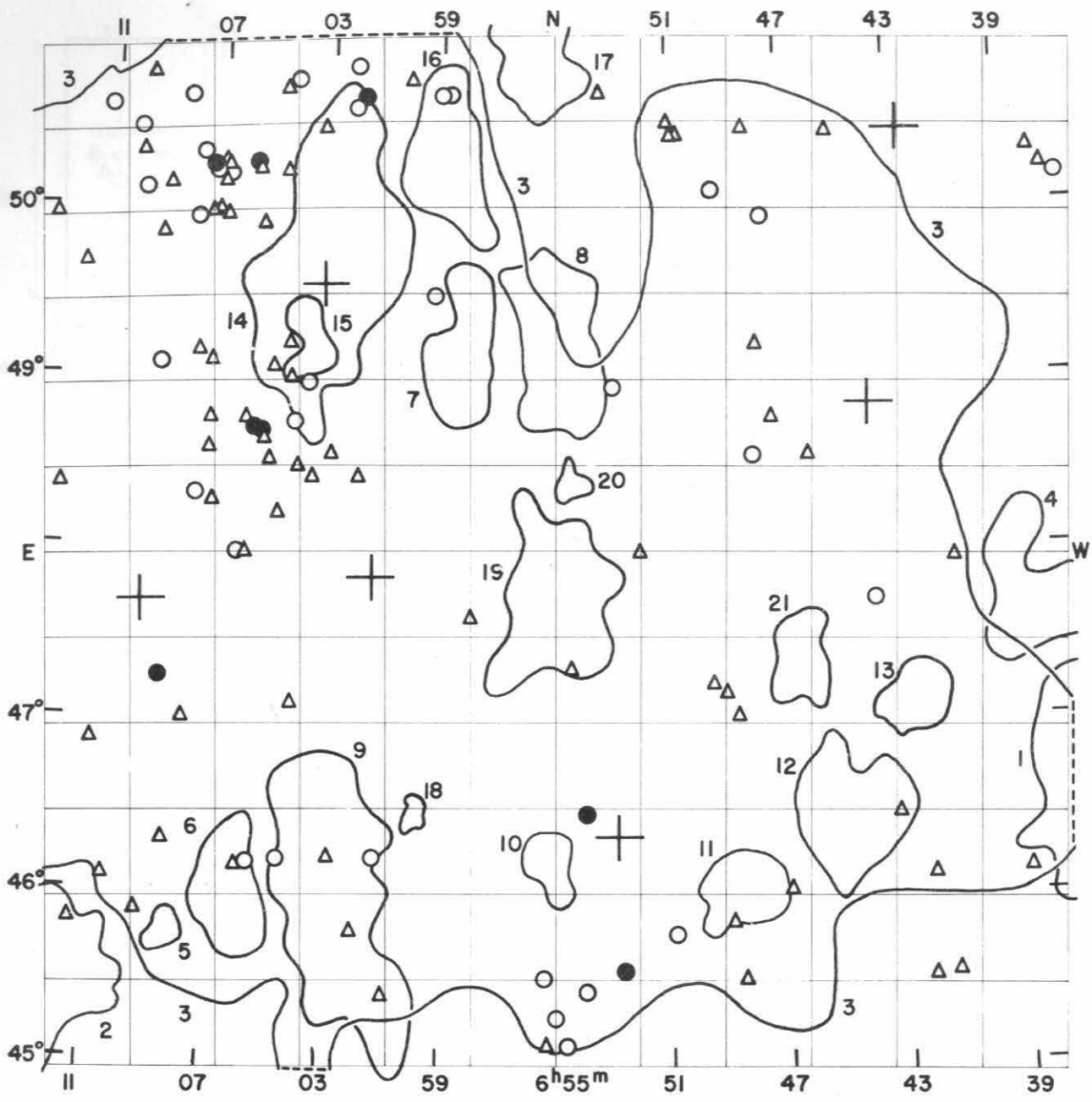
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0603.0 + 4746	medium compact	110	4.3	D	8
0607.9 + 4848	medium compact	69	3.2	MD	7
0611.6 + 4601	medium compact	105	7.2	Near	6
0613.9 + 4753	medium compact	114	8.0	Near	14
0618.7 + 4618	medium compact	58	3.4	D	13
0620.4 + 4620	open	143	10.0	Near	4
0625.6 + 4608	compact	65	1.1	VD	3
0628.5 + 4709	medium compact	55	3.0	ED	12
0628.9 + 5232	open	785	28.6	Near	5
0631.0 + 4613	compact	97	4.6	MD	2
0632.0 + 4704	medium compact	84	2.5	VD	11
0634.1 + 4750	medium compact	60	1.9	VD	10
0636.5 + 4637	medium compact	103	5.8	MD	1
0638.0 + 4740	medium compact	76	3.7	D	9
0700.4 + 4801	medium compact	1273	36.4	Near	15

Average number of galaxies per cluster = 213.1

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
6 08.2	+ 50 23		15.6		
6 09.5	+ 46 31		15.1		compact
6 11.9	+ 49 47		15.0		
6 12.3	+ 47 07		15.1		very compact
6 12.4	+ 47 11		15.2		compact
6 12.9	+ 50 03		15.6		
6 14.4	+ 50 54		15.5		
6 14.6	+ 50 55		15.3		compact
6 15.9	+ 50 58		15.6		
6 16.0	+ 50 52		15.7		triple system
6 16.8	+ 50 07		15.4		diffuse
6 17.6	+ 45 15		15.7		
6 18.1	+ 46 45		15.5		
6 18.3	+ 50 51		15.7		double nebula
6 19.1	+ 46 38		15.6		
6 20.6	+ 51 00		15.5		
6 21.1	+ 49 32		14.9		
6 23.5	+ 49 38		14.7		
6 26.9	+ 46 02		15.0		
6 27.5	+ 50 07		15.7		
6 29.1	+ 47 33		15.3		double system
6 31.6	+ 48 53		14.8		
6 33.4	+ 49 53		15.6		
6 36.7	+ 50 09		14.4		
6 37.2	+ 50 12		15.4		
6 37.7	+ 50 18		15.2		double system



FIELD No. 234

6^h55^m $+48^\circ00'$

Survey Plate No. 691

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
8821	6 42 27.7	+ 50 26 03	7.12
8858	6 43 51.0	+ 48 50 41	5.28
9075	6 52 50.5	+ 46 20 23	5.80
9317	7 01 24.3	+ 47 51 03	6.36
9363	7 03 12.2	+ 49 32 58	7.72
9525	7 09 29.4	+ 47 41 36	6.62

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0636.5 + 4637	medium compact	103	5.8	MD	1
0638.0 + 4740	medium compact	76	3.7	D	4
0642.6 + 4706	compact	94	2.1	D	13
0644.8 + 4626	medium compact	108	4.0	MD	12
0646.4 + 4720	medium compact	65	2.5	VD	21
0648.7 + 4601	compact	128	2.5	D	11
0654.4 + 4823	medium compact	54	0.9	ED	20
0654.8 + 4911	medium compact	91	4.2	MD	8
0654.9 + 4742	medium compact	86	4.5	D	19
0655.1 + 4609	medium compact	83	1.7	D	10
0655.5 + 5054	medium compact	102	3.6	VD	17
0658.3 + 4908	medium compact	131	3.2	MD	7
0658.9 + 5014	medium compact	83	3.5	D	16
0659.8 + 4627	compact	45	0.8	ED	18
0700.4 + 4801	medium compact	1273	36.4	Near	3
0702.5 + 4554	medium compact	185	6.3	D	9
0703.0 + 4935	medium compact	160	6.5	D	14
0703.7 + 4913	compact	88	1.8	VD	15
0706.0 + 4600	medium compact	141	3.1	MD	6
0708.3 + 4544	medium compact	71	1.2	VD	5
0712.4 + 4523	medium compact	111	5.1	MD	2

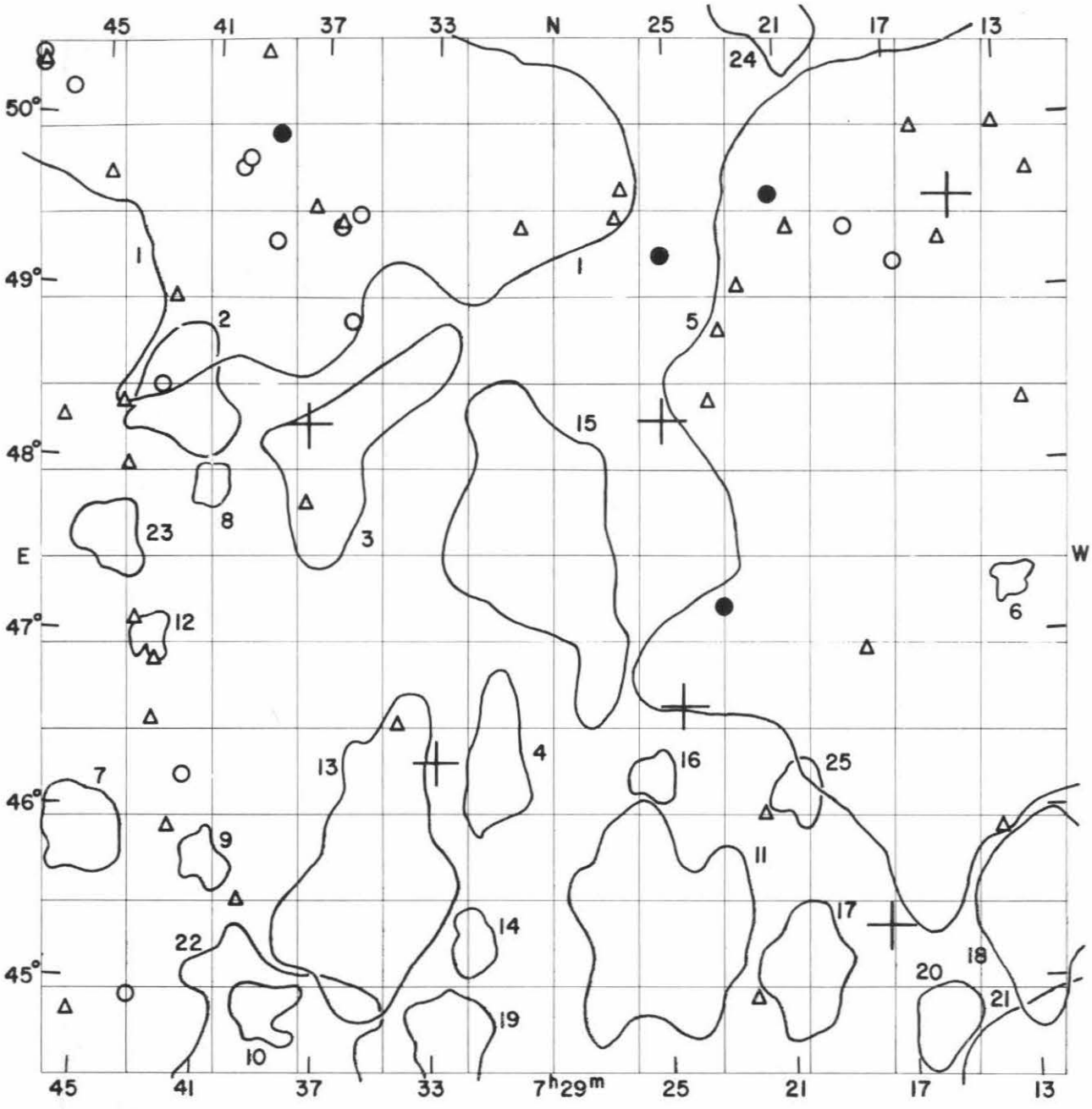
Average number of galaxies per cluster = 156.1

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
6 36.7	+ 50 09		14.4		
6 37.2	+ 50 12		15.4		
6 37.7	+ 50 18		15.2		double system
6 38.8	+ 46 08		15.6		
6 41.0	+ 47 56		15.7		
6 41.3	+ 45 33		15.6		compact
6 42.1	+ 46 07		15.5		
6 42.2	+ 45 31		15.2		diffuse
6 43.2	+ 46 29		15.4		
6 43.8	+ 47 43		14.9		
6 45.1	+ 50 26		15.7		
6 46.0	+ 48 34		15.4		diffuse
6 47.0	+ 46 02		15.3		
6 47.2	+ 48 47		15.1		
6 47.5	+ 49 56		14.5		
6 47.8	+ 49 12		15.7		
6 48.0	+ 48 34		14.2		
6 48.1	+ 50 28		15.7		
6 48.6	+ 45 31		15.7		
6 48.6	+ 47 03		15.7		
6 49.0	+ 45 51		15.3		
6 49.0	+ 47 11		15.7		double system, connected
6 49.3	+ 50 05		14.6		
6 49.5	+ 47 15		15.7		
6 50.5	+ 50 26		15.6		
6 50.7	+ 50 25		15.1		
6 50.9	+ 45 47		14.9		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
6 50.9	+ 50 30		15.7		
6 52.0	+ 48 00		15.2		
6 52.6	+ 45 34	2303	13.9		
6 53.0	+ 48 58		14.6		
6 53.4	+ 50 41		15.6		
6 53.9	+ 45 21		15.0		
6 53.9	+ 46 29		13.7		
6 54.4	+ 47 19		15.6		
6 54.6	+ 45 08		14.7		
6 55.0	+ 45 17	2308	14.4		
6 55.3	+ 45 08		15.5		
6 55.4	+ 45 31		14.8		
6 58.0	+ 47 38		15.1		
6 58.7	+ 50 40	2315	14.5		
6 59.0	+ 50 40		14.9		double system, bridges + jets
6 59.2	+ 49 30		14.4		
7 00.1	+ 50 45		15.5		
7 00.8	+ 45 25		15.6		
7 01.2	+ 46 13		14.5		
7 01.8	+ 50 40	2320	13.9		
7 01.9	+ 48 26		15.1		
7 02.0	+ 45 48		15.6		
7 02.1	+ 50 35	2322	14.6		
7 02.1	+ 50 50	2321	14.8		
7 02.8	+ 46 13		15.1		
7 02.8	+ 48 34		15.1		
7 03.2	+ 50 28		15.3		
7 03.5	+ 48 25		15.6		
7 03.8	+ 48 58		14.8		
7 04.0	+ 48 29		15.7		
7 04.1	+ 47 06		15.6		
7 04.2	+ 48 44		14.6		
7 04.3	+ 50 45	2326	14.3		
7 04.4	+ 49 00		15.5		
7 04.4	+ 49 13		15.1		
7 04.5	+ 46 12		14.1		
7 04.5	+ 50 12		15.5		very compact
7 04.7	+ 48 12		15.6		
7 04.7	+ 50 42		15.5		
7 05.0	+ 49 04		15.1		
7 05.1	+ 48 31		15.1		
7 05.3	+ 48 39		15.6		
7 05.4	+ 48 42	2329	13.7		
7 05.4	+ 49 54		15.5		
7 05.5	+ 46 11		14.7		
7 05.6	+ 48 43		13.8		
7 05.6	+ 50 13	457*	15.7		
7 05.7	+ 50 15	2332	14.0		
7 05.9	+ 46 10		15.3		
7 05.9	+ 48 00		15.2		
7 05.9	+ 48 46		15.2		very compact
7 06.1	+ 47 59		14.7		double system, bridge + jet
7 06.7	+ 49 56		15.3		
7 06.7	+ 50 11	458*	14.4		
7 06.8	+ 50 14	459*	15.5		extremely compact
7 06.9	+ 50 09	461*	15.7		
7 06.9	+ 50 16	460*	15.4		compact
7 07.0	+ 48 16		15.5		
7 07.0	+ 49 59		15.4		compact

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
7 07.1	+ 50 13	464*	14.8		
7 07.2	+ 48 35		15.1		double system
7 07.2	+ 48 45		15.3		
7 07.2	+ 49 05		15.2		
7 07.2	+ 50 15	2340	13.9		
7 07.3	+ 49 58		15.7		diffuse spiral
7 07.7	+ 48 19		14.5		
7 07.7	+ 49 10		15.4		
7 07.7	+ 50 19	465*	14.6		compact
7 07.9	+ 47 01		15.3		compact
7 07.9	+ 49 56		14.2		
7 08.2	+ 50 40		14.9		
7 08.4	+ 46 18		15.7		
7 08.7	+ 47 15	2344	13.2		
7 08.9	+ 50 08		15.6		compact
7 09.1	+ 49 05		15.0		
7 09.1	+ 49 51		15.2		
7 09.2	+ 45 53		15.7		
7 09.8	+ 50 06		14.9		
7 09.8	+ 50 48		15.1		
7 10.0	+ 50 20		15.5		
7 10.1	+ 50 28		14.6		
7 10.4	+ 46 05		15.6		
7 11.0	+ 46 52		15.6		
7 11.2	+ 50 37		14.2		compact
7 11.5	+ 45 50		15.4		compact
7 11.9	+ 49 42		15.7		
7 12.5	+ 48 21		15.6		
7 13.0	+ 49 58		15.7		



FIELD No. 235

7^h29^m $+47^o30'$

Survey Plate No. 670

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
9681	7 14 44.3	+ 49 33 22	4.80
9769	7 17 40.6	+ 45 19 22	5.64
9949	7 24 29.4	+ 46 37 29	6.78
9965	7 25 08.4	+ 48 17 15	5.57
10168	7 32 54.2	+ 46 17 33	5.80
10305	7 37 31.2	+ 48 15 01	5.77

CLUSTERS OF GALAXIES

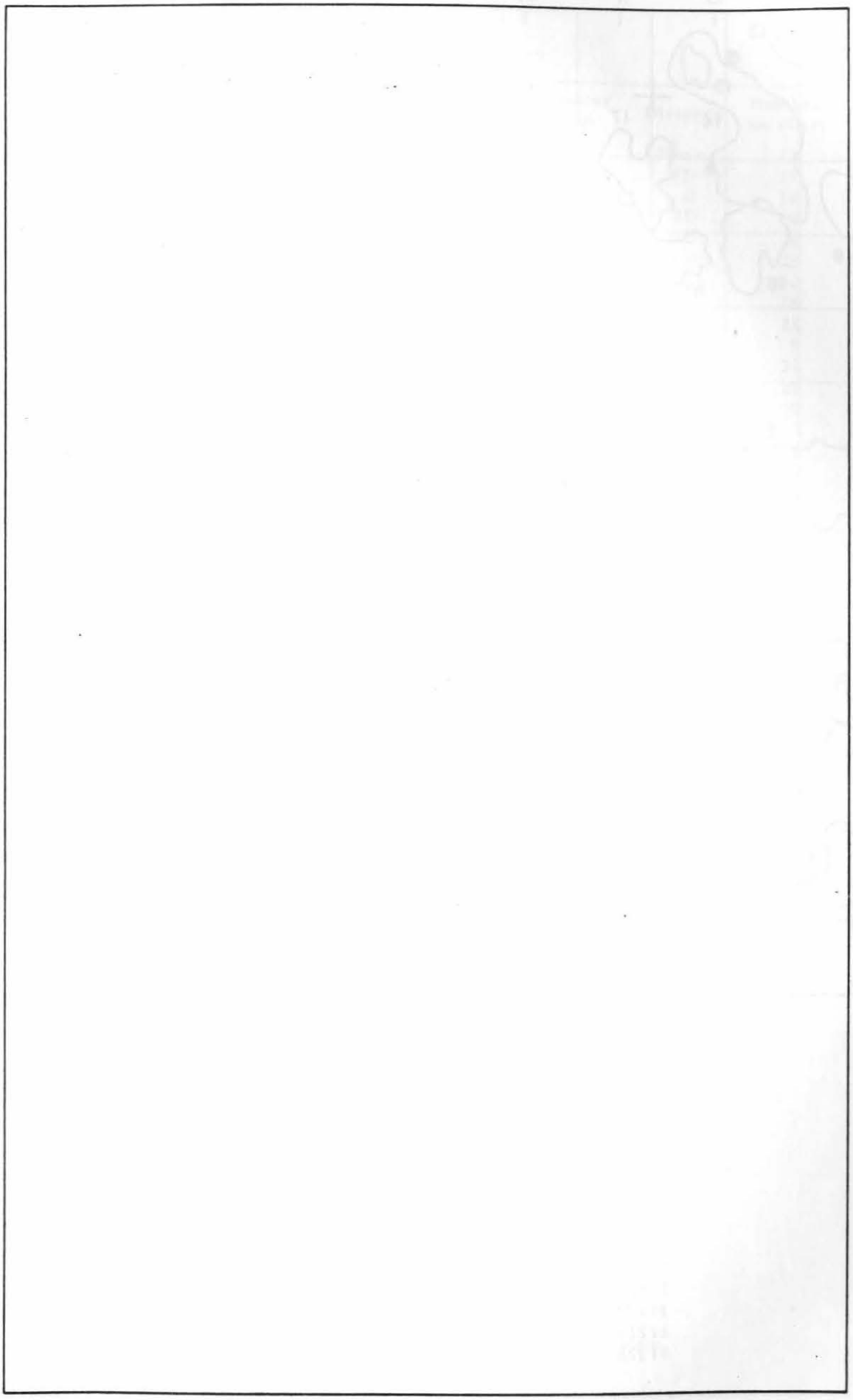
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0700.4 + 4801	medium compact	1273	36.4	Near	5
0710.5 + 4222	medium compact	575	18.6	Near	21
0712.4 + 4523	medium compact	111	5.1	MD	18
0713.1 + 4717	compact	73	1.1	VD	6
0716.0 + 4445	medium compact	102	2.2	D	20
0720.5 + 4505	medium compact	68	3.2	D	17
0720.7 + 4606	medium compact	56	1.7	ED	25
0721.2 + 5043	medium compact	86	3.4	D	24
0725.3 + 4520	medium compact	143	6.2	MD	11
0725.6 + 4612	medium compact	66	1.5	VD	16
0729.2 + 4734	open	103	6.8	MD	15
0731.0 + 4616	medium compact	73	3.0	D	4
0731.7 + 4515	compact	104	1.7	VD	14
0732.3 + 4442	medium compact	55	2.8	MD	19
0735.0 + 4533	open	151	6.5	MD	13
0736.3 + 4805	medium compact	80	4.9	D	3
0738.0 + 4431	open	139	8.2	D	22
0738.7 + 4449	medium compact	56	1.9	D	10
0739.8 + 4949	medium compact	250	15.3	Near	1
0740.8 + 4542	medium compact	76	1.6	VD	9
0741.0 + 4752	medium compact	62	1.2	VD	8
0741.9 + 4824	medium compact	89	3.5	MD	2
0742.9 + 4659	compact	85	1.3	VD	12
0744.4 + 4733	medium compact	112	2.1	VD	23
0744.9 + 4551	medium compact	92	2.4	D	7

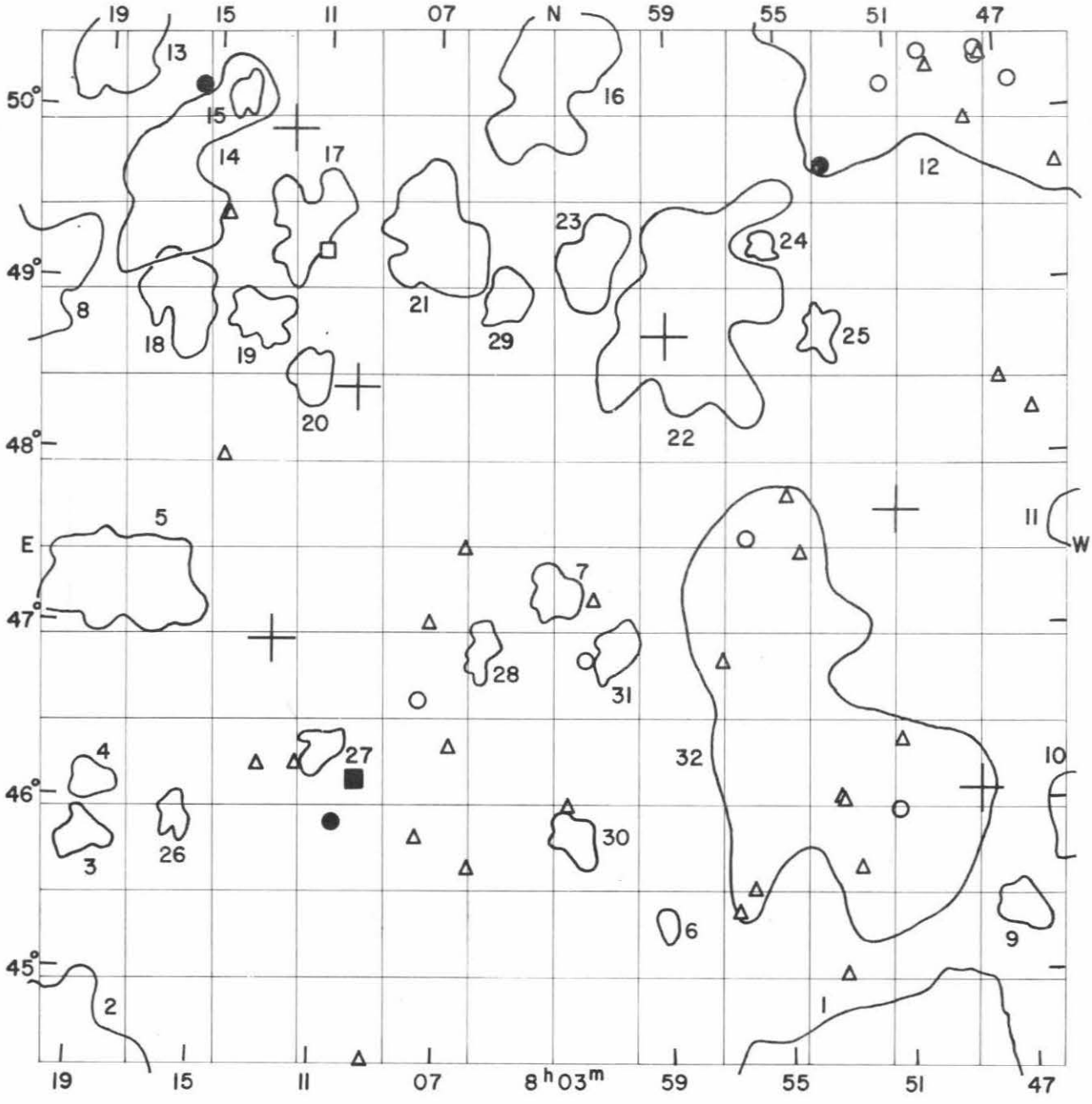
Average number of galaxies per cluster = 163.2

GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
7 11.9	+ 49 42		15.7		
7 12.5	+ 48 21		15.6		
7 13.0	+ 49 58		15.7		
7 13.7	+ 45 53		15.7		
7 15.1	+ 49 18		15.5		
7 16.0	+ 49 57		15.4		
7 16.8	+ 49 11		15.0		
7 18.1	+ 46 56		15.3		system with jet
7 18.5	+ 49 23		14.4		
7 20.6	+ 49 23		15.5		compact
7 21.2	+ 49 35		13.6		
7 21.8	+ 46 00		15.6		
7 22.1	+ 44 55		15.5		
7 22.5	+ 49 03		15.1		
7 23.0	+ 47 12		13.6		
7 23.1	+ 48 48		15.2		
7 23.6	+ 48 23		15.5		
7 25.1	+ 49 14		13.9		
7 26.6	+ 49 37		15.6		very diffuse
7 26.8	+ 49 27		15.6		
7 30.1	+ 49 24		15.3		
7 34.2	+ 46 31		15.7		very diffuse spiral
7 35.8	+ 49 27		14.9		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
7 36.0	+ 48 51		14.9		diffuse spiral
7 36.4	+ 49 25		15.5		compact
7 36.5	+ 49 23		15.0		
7 37.3	+ 49 30		15.4		
7 37.5	+ 47 47		15.6		extremely diffuse
7 38.8	+ 49 18		14.7		
7 38.8	+ 49 55		13.3		
7 39.3	+ 50 23		15.6		
7 39.5	+ 45 28		15.6		very compact
7 39.9	+ 49 46	471*	14.2		
7 40.1	+ 49 43	472*	14.5		
7 41.5	+ 46 11		14.8		
7 41.9	+ 45 54		15.5		
7 42.3	+ 48 57		15.5		compact
7 42.6	+ 46 30		15.7		
7 42.6	+ 46 51		15.7		
7 42.7	+ 48 26		14.6		
7 43.0	+ 44 54		14.3		double system
7 43.3	+ 47 05		15.7		
7 43.8	+ 47 59		15.7		
7 44.0	+ 48 20		15.5		
7 44.9	+ 49 40		15.6		
7 45.0	+ 44 48		15.5		
7 46.1	+ 48 15		15.4		
7 46.4	+ 50 10		15.0		
7 47.5	+ 50 18		15.4		
7 47.6	+ 50 17		14.4		
7 47.6	+ 50 21		14.1		double system in halo





FIELD No. 236

8^h03^m $+47^\circ30'$

Survey Plate No. 1317

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ′ ″	
10603	7 48 29.0	+ 46 03 44	6.53
10666	7 51 04.7	+ 47 41 46	5.69
10879	7 59 03.1	+ 48 43 58	7.58
11157	8 09 51.2	+ 48 25 56	6.75
11216	8 12 18.6	+ 49 55 32	8.4
11228	8 12 36.8	+ 46 57 22	6.99

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0739.8 + 4949	medium compact	250	15.3	Near	12
0744.4 + 4733	medium compact	112	2.1	VD	11
0744.9 + 4551	medium compact	92	2.4	D	10
0747.3 + 4522	medium compact	75	1.6	VD	9
0749.3 + 4402	open	193	9.7	MD	1
0753.6 + 4844	compact	63	1.4	ED	25
0754.0 + 4619	open	125	10.0	Near	32
0755.5 + 4915	compact	54	0.9	ED	24
0758.0 + 4852	open	108	5.7	MD	22
0759.0 + 4519	compact	66	0.8	ED	6
0800.9 + 4653	medium compact	107	1.5	ED	31
0801.7 + 4908	compact	122	2.4	ED	23
0802.2 + 4547	compact	102	1.5	ED	30
0802.9 + 4714	medium compact	118	1.7	ED	7
0803.2 + 5012	medium compact	90	3.9	D	16
0804.8 + 4856	compact	81	1.5	ED	29
0805.4 + 4654	medium compact	65	1.3	VD	28
0807.1 + 4918	medium compact	117	3.4	VD	21
0810.8 + 4618	compact	71	1.3	ED	27
0811.6 + 4828	compact	66	1.4	VD	20
0811.6 + 4921	medium compact	116	2.5	VD	17
0813.3 + 4848	compact	98	1.9	ED	19
0814.1 + 5005	compact	74	1.1	ED	15
0815.7 + 4555	compact	67	1.1	ED	26
0816.2 + 4853	medium compact	106	2.5	D	18
0816.2 + 4937	medium compact	80	4.6	MD	14
0817.7 + 4715	medium compact	124	3.9	D	5
0818.5 + 4605	medium compact	79	1.2	ED	4
0818.9 + 4546	medium compact	98	1.5	ED	3
0818.9 + 5021	open	65	2.9	VD	13
0819.9 + 4424	medium compact	176	6.1	D	2
0822.7 + 4903	medium compact	138	5.1	D	8

Average number of galaxies per cluster = 103.1

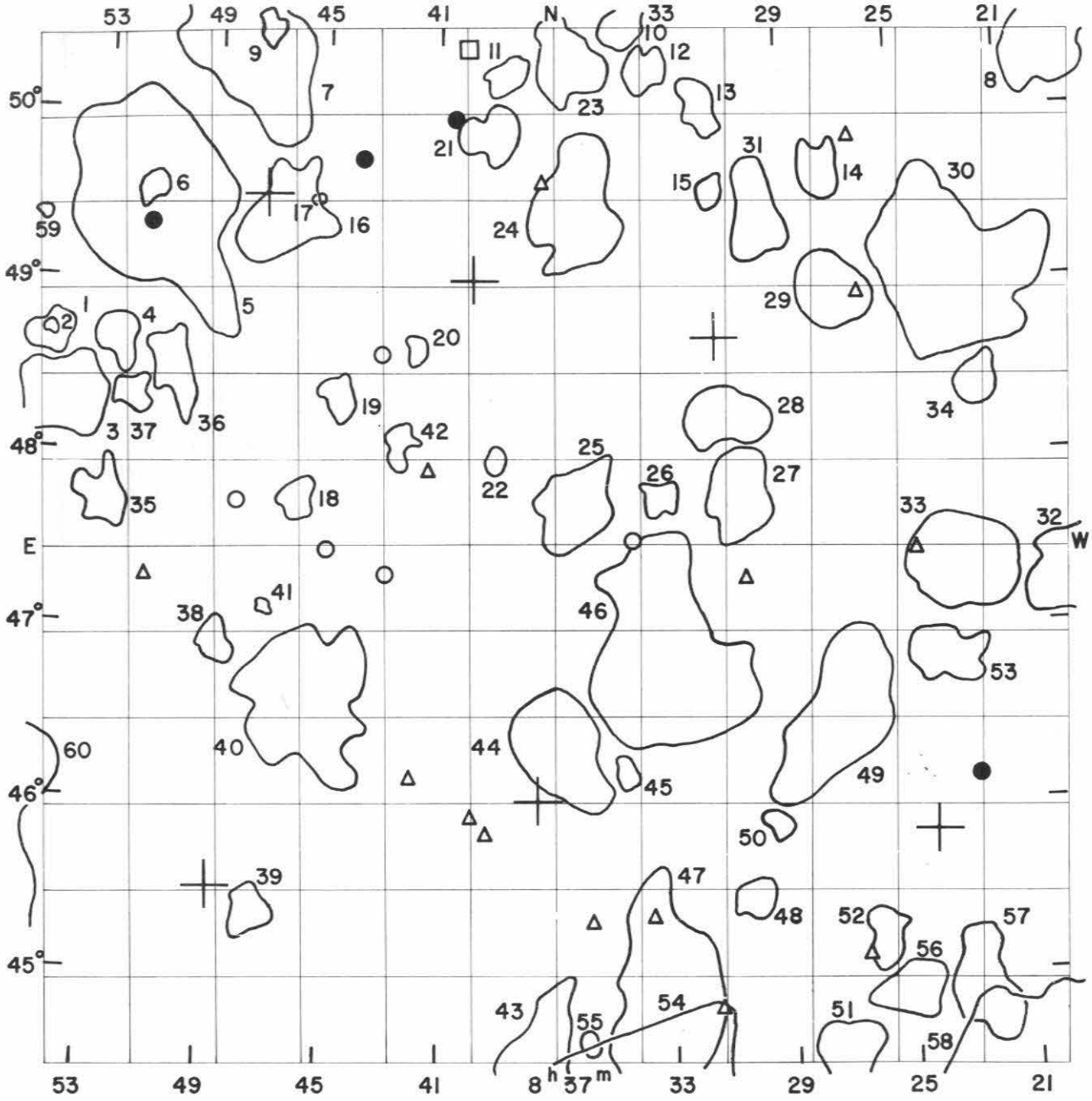
GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
7 44.9	+ 49 40		15.6		
7 46.1	+ 48 15		15.4		
7 46.4	+ 50 10		15.0		
7 47.3	+ 48 27		15.7		compact
7 47.5	+ 50 18		15.4		
7 47.6	+ 50 17		14.4		
7 47.6	+ 50 21		14.1		double system in halo
7 48.2	+ 49 57		15.1		compact
7 49.4	+ 50 15		15.3		
7 49.7	+ 50 21		14.9		
7 51.1	+ 50 10		14.5		
7 51.2	+ 46 21		15.7		diffuse
7 51.3	+ 45 58		14.8		
7 52.6	+ 45 37		15.7		
7 53.1	+ 45 00		15.5		double system
7 53.1	+ 46 01		15.7		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
7 53.2	+46 02		15.6		
7 53.3	+49 42		13.9		
7 54.5	+47 27		15.3		double system, bridge + 3 jets
7 54.9	+47 47		15.4		
7 56.2	+45 30		15.5		
7 56.3	+47 33		15.0		
7 56.8	+45 22		15.1		
7 57.2	+46 50		15.2		
8 01.6	+47 12		15.3		
8 01.9	+46 51		14.7		double system
8 02.5	+46 00		15.7		diffuse
8 05.8	+45 38		15.6		
8 06.0	+47 30		15.5		
8 06.5	+46 20		15.4		diffuse spiral
8 07.2	+47 04		15.7		
8 07.6	+46 37		14.3		disrupted spiral
8 07.7	+45 49		15.6		
8 09.3	+44 31		15.2		
8 09.7	+46 09	2537	11.7	+ 344	m_H = 12.2 Sp 4 nuclei
8 10.4	+45 54	2233*	13.6		
8 11.0	+49 13	2541	13.0		m_H = 12.7 S
8 11.7	+46 14		15.2		
8 13.0	+46 13		15.5		
8 14.4	+48 00		15.5		
8 14.6	+49 23		15.4		
8 15.7	+50 10	2552	13.5		m_H = 12.5

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
2537	11.3	Scp	12.33	Sc	12.2	Sc	-	-
2541	-	-	-	-	-	-	11.88	Sc+



FIELD No. 237

8^h37^m $+47^o30'$

Survey Plate No. 671

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
11534	8 24 08.0	+ 45 49 24	6.33
11738	8 31 20.5	+ 48 42 23	6.76
11903	8 37 34.3	+ 46 00 39	5.52
11974	8 39 53.7	+ 49 02 33	7.49
12181	8 47 11.1	+ 49 32 00	8.32
12226	8 48 48.2	+ 45 30 06	6.08

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0817.7 + 4715	medium compact	124	3.9	D	32
0818.9 + 5021	open	65	2.9	VD	8
0819.9 + 4424	medium compact	176	6.1	D	58
0822.1 + 4824	medium compact	84	1.4	VD	34
0822.7 + 4454	medium compact	65	2.5	ED	57
0822.7 + 4903	medium compact	138	5.1	D	30
0822.8 + 4722	compact	196	3.3	D	33
0823.5 + 4649	medium compact	63	2.0	VD	53
0825.0 + 4453	compact	73	2.0	VD	56
0825.9 + 4512	medium compact	59	1.4	VD	52
0827.0 + 4856	medium compact	113	2.2	D	29
0827.3 + 4432	medium compact	81	2.0	VD	51
0827.3 + 4628	medium compact	121	3.8	D	49
0827.4 + 4940	medium compact	83	1.5	VD	14
0829.4 + 4552	medium compact	72	0.8	ED	50
0829.6 + 4923	open	106	2.3	D	31
0830.2 + 4526	compact	75	1.3	ED	48
0830.5 + 4746	open	59	2.3	VD	27
0830.9 + 4814	medium compact	91	2.0	D	28
0831.4 + 4932	medium compact	60	0.9	ED	15
0831.7 + 5001	medium compact	102	1.3	ED	13
0833.0 + 4650	open	132	5.4	D	46
0833.1 + 4452	medium compact	117	4.7	D	47
0833.3 + 4746	medium compact	93	1.2	ED	26
0833.6 + 5015	medium compact	83	1.4	VD	12
0834.4 + 5031	medium compact	116	1.4	ED	10
0834.5 + 4610	compact	54	0.8	ED	45
0835.8 + 4436	medium compact	48	0.7	ED	55
0836.1 + 4925	medium compact	123	3.5	VD	24
0836.2 + 4744	open	87	2.4	VD	25
0836.3 + 4147	open	550	27.6	Near	54
0836.4 + 5017	medium compact	105	2.2	VD	23
0836.8 + 4618	open	93	3.4	VD	44
0837.4 + 4431	open	94	2.8	D	43
0838.6 + 5013	compact	105	1.2	ED	11
0839.0 + 4800	compact	72	0.7	ED	22
0839.1 + 4952	medium compact	83	1.7	D	21
0841.7 + 4838	medium compact	57	0.8	ED	20
0842.3 + 4805	medium compact	61	1.1	ED	42
0844.4 + 4820	medium compact	65	1.2	VD	19
0845.2 + 4929	compact	52	0.3	ED	17
0845.3 + 4635	open	95	4.2	D	40
0845.9 + 4745	medium compact	102	1.2	ED	18
0846.5 + 4923	medium compact	85	2.9	VD	16
0847.0 + 4707	compact	43	0.4	ED	41
0847.2 + 4522	medium compact	77	1.4	ED	39
0847.2 + 5029	medium compact	53	0.9	ED	9
0847.8 + 5020	open	102	4.4	VD	7
0848.6 + 4655	medium compact	77	1.2	ED	38
0850.2 + 4829	open	92	1.8	VD	36
0851.1 + 4925	medium compact	110	6.0	Near	5
0851.2 + 4932	compact	65	1.0	VD	6
0851.7 + 4820	medium compact	103	1.1	ED	37
0852.2 + 4840	medium compact	81	1.4	VD	4
0852.7 + 4745	medium compact	64	1.6	VD	35
0854.1 + 4819	open	95	2.8	D	3
0854.6 + 4841	medium compact	63	1.3	VD	1
0854.7 + 4843	compact	52	0.4	ED	2

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0855.1 + 4922	compact	39	0.4	ED	59
0856.3 + 4554	open	105	6.8	Near	60

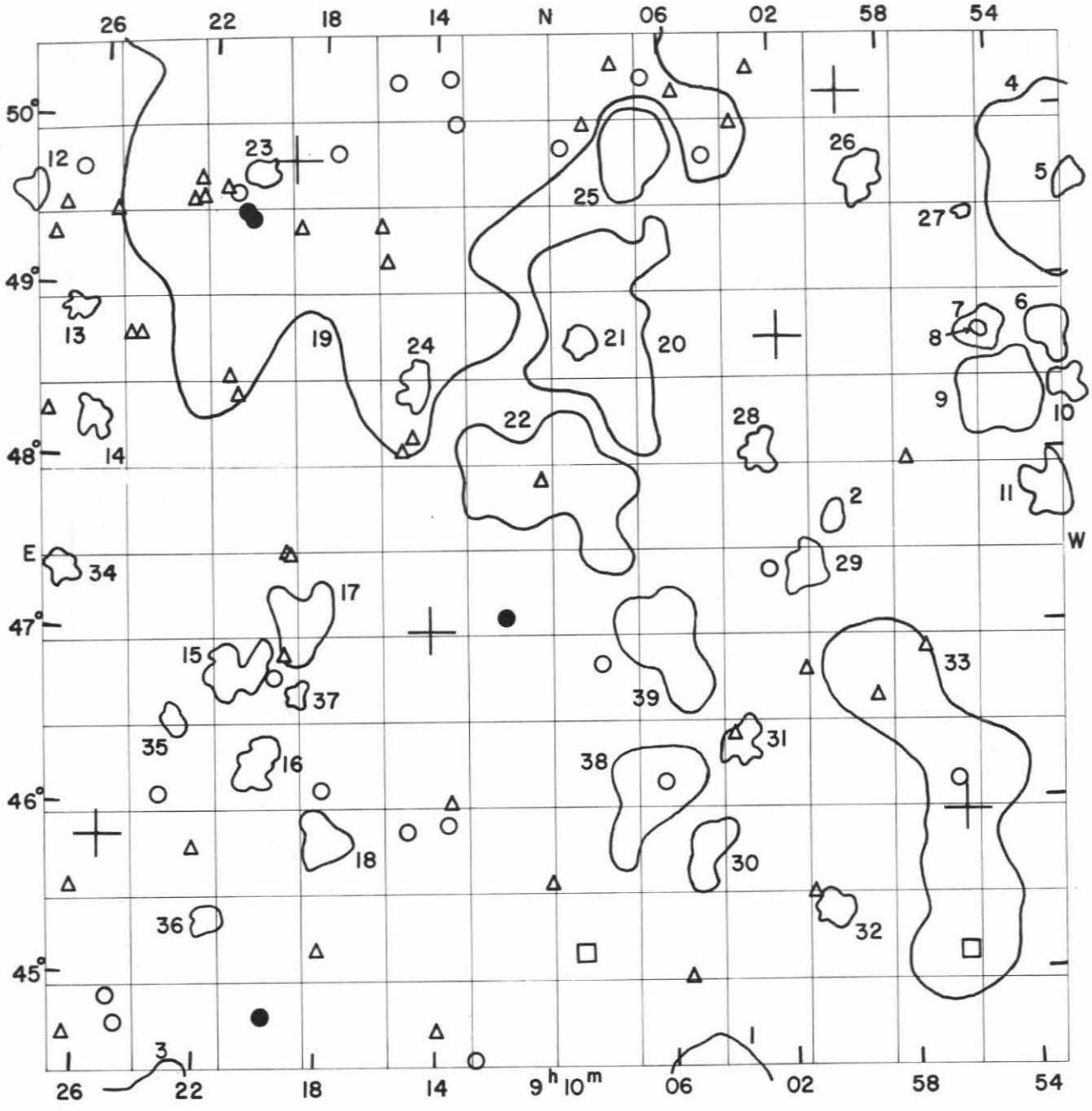
Average number of galaxies per cluster = 95.0

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
8 22.6	+ 46 08		13.6		
8 24.5	+ 47 27		15.6		
8 26.2	+ 48 56		15.5		
8 26.4	+ 49 51		15.6		
8 26.5	+ 45 06		15.4		very compact
8 30.4	+ 47 18		15.7		
8 31.4	+ 44 48		15.7		
8 33.7	+ 45 20		15.5		
8 34.3	+ 47 31		15.0		
8 35.7	+ 45 18		15.3		
8 37.4	+ 49 36		15.7		
8 39.4	+ 45 50		15.2		
8 39.9	+ 45 55		15.1		extremely diffuse spiral
8 40.0	+ 50 22	2639	12.4	+ 3314	m_H = 12.4
8 40.5	+ 49 58		13.1		
8 41.4	+ 47 55		15.4		diffuse spiral
8 42.0	+ 46 08		15.6		
8 42.8	+ 47 20		14.7		double system, bridge + jet
8 43.0	+ 48 37		14.5		
8 43.7	+ 49 44		13.8		
8 44.9	+ 47 28		14.8		
8 48.0	+ 47 44	2676	14.3		
8 51.2	+ 47 17		15.5		very diffuse
8 51.3	+ 49 20	2684	13.4		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
2639	-	-	12.56	Sa	12.6	Sa	-	-



FIELD No. 238

9^h10^m $+47^\circ30'$

Survey Plate No. 1004

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
12410	8 56 01.5	+ 45 56 02	6.61
12492	8 59 33.2	+ 50 08 47	6.81
12540	9 01 57.7	+ 48 43 50	5.59
12799	9 14 10.5	+ 47 01 37	5.70
12911	9 19 08.3	+ 49 45 32	6.86
13051	9 25 23.9	+ 45 49 19	5.56

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0851.1 + 4925	medium compact	110	6.0	Near	4
0851.2 + 4932	compact	65	1.0	VD	5
0851.7 + 4820	medium compact	103	1.1	ED	10
0852.2 + 4840	medium compact	81	1.4	VD	6
0852.7 + 4745	medium compact	64	1.6	VD	11
0854.1 + 4819	open	95	2.8	D	9
0854.6 + 4841	medium compact	63	1.3	VD	7
0854.7 + 4843	compact	52	0.4	ED	8
0855.1 + 4922	compact	39	0.4	ED	27
0856.3 + 4554	open	105	6.8	Near	33
0858.7 + 4937	compact	67	1.3	ED	26
0900.2 + 4739	medium compact	62	0.9	ED	2
0900.6 + 4521	compact	62	1.1	ED	32
0901.2 + 4722	medium compact	75	1.3	ED	29
0902.8 + 4802	compact	71	1.1	ED	28
0903.6 + 4625	medium compact	80	1.2	VD	31
0904.9 + 4543	compact	130	1.6	VD	30
0905.0 + 4351	medium compact	153	5.9	MD	1
0906.1 + 4656	open	84	2.9	ED	39
0906.7 + 4603	medium compact	126	2.9	VD	38
0907.0 + 4948	open	90	2.3	D	25
0908.3 + 4847	medium compact	152	5.2	D	20
0909.0 + 4842	compact	70	1.0	ED	21
0909.9 + 4752	medium compact	99	4.5	MD	22
0914.8 + 4827	medium compact	74	1.1	ED	24
0916.7 + 4952	open	199	15.7	Near	19
0917.9 + 4548	compact	94	1.6	ED	18
0918.6 + 4703	compact	161	2.2	ED	17
0918.8 + 4637	compact	50	0.5	ED	37
0920.2 + 4613	medium compact	101	1.4	ED	16
0920.3 + 4940	medium compact	56	0.9	ED	23
0920.9 + 4644	compact	146	1.7	VD	15
0921.7 + 4520	medium compact	71	0.9	ED	36
0923.0 + 4628	medium compact	58	0.9	ED	35
0923.9 + 4410	medium compact	192	2.7	VD	3
0926.0 + 4813	compact	64	1.0	ED	14
0926.7 + 4851	compact	56	0.8	ED	13
0927.0 + 4721	medium compact	68	1.0	ED	34
0928.6 + 4932	compact	72	1.0	ED	12

Average number of galaxies per cluster = 91.3

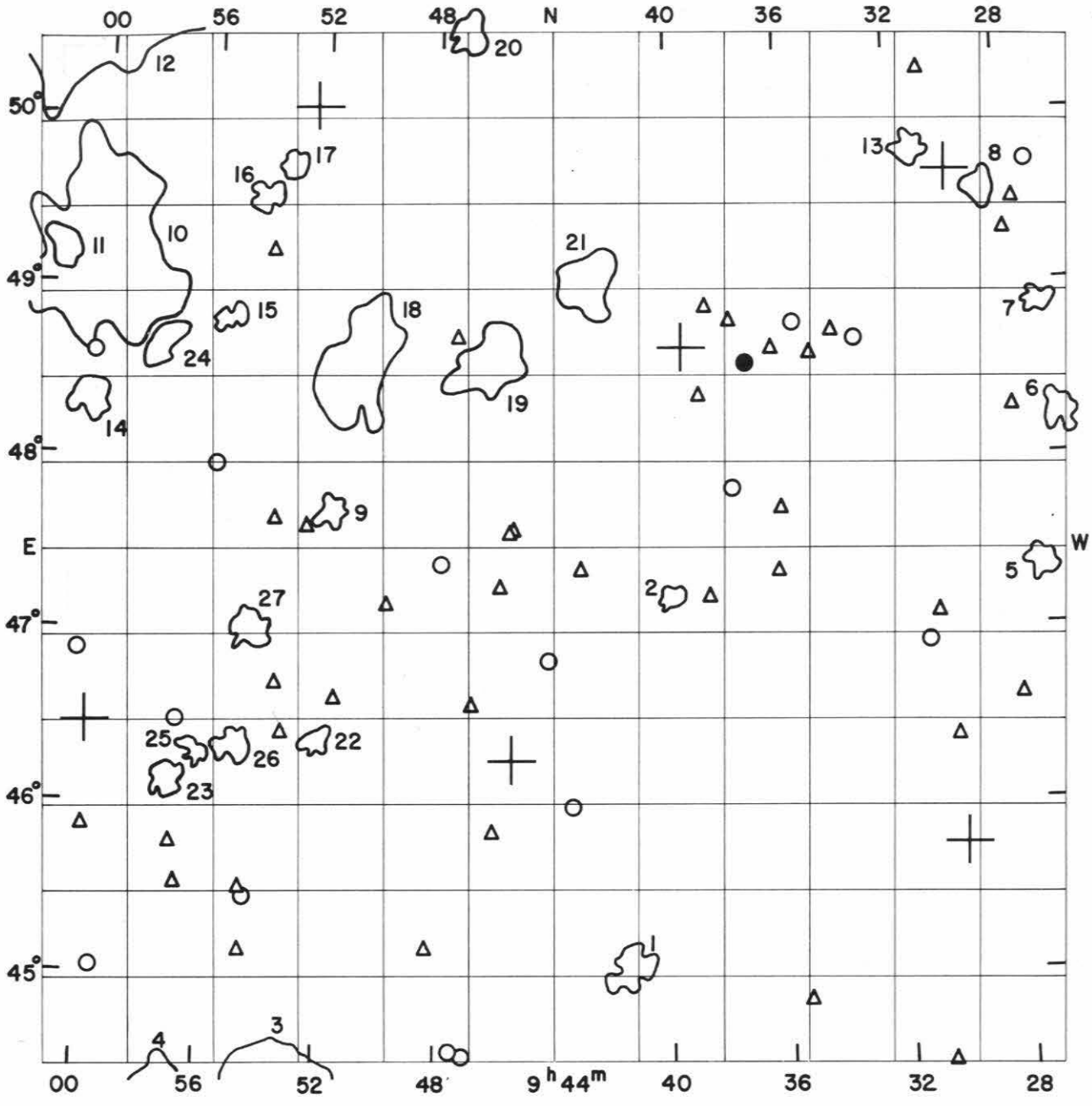
GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
8 56.2	+ 45 06	2712	12.3	+ 1840	m_H = 12.7 Sc
8 56.2	+ 46 08		14.5		
8 57.3	+ 46 53		15.3		
8 57.6	+ 48 00		15.6		
8 58.9	+ 46 37		15.7		
9 01.2	+ 45 29		15.7		
9 01.4	+ 46 47		15.7		
9 02.5	+ 47 23		14.5		double system, plume + halo
9 02.8	+ 50 17		15.6		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
9 03.5	+49 58		15.4		
9 03.9	+46 25		15.6		compact, brightest of 3
9 04.5	+49 48		15.0		triple system in halo
9 05.5	+45 00		15.2		
9 05.6	+50 10		15.6		
9 06.2	+46 10		14.6		
9 06.7	+50 15		14.4		double system
9 07.8	+50 20		15.7		
9 08.4	+46 51		14.3		compact
9 08.8	+49 58		15.5		
9 09.0	+45 10	2776	12.1	+ 2673	m_H = 12.2 Sc
9 09.6	+49 50		14.1		
9 10.1	+45 34		15.6		
9 10.4	+47 55		15.7		double system
9 11.6	+47 07		14.0		
9 12.7	+44 33		14.9		double system, twisted streamer
9 13.4	+49 59		14.9		compact
9 13.5	+46 02		15.4		double nebula
9 13.6	+45 55		14.8		eruptive galaxy
9 13.6	+50 15		14.9		system with plume + jets
9 14.0	+44 42		15.1		
9 14.9	+48 10		15.5		
9 15.0	+45 52		14.4		
9 15.2	+48 05		15.1		very diffuse spiral
9 15.5	+50 13		14.7		compact
9 15.8	+49 10		15.4		
9 16.0	+49 22		15.6		compact
9 17.6	+49 48		15.0		
9 17.8	+46 06		14.8		
9 17.9	+45 10		15.5		
9 18.9	+49 22		15.7		
9 19.0	+47 27		15.6		
9 19.1	+47 28		15.7		compact
9 19.3	+46 52		15.5		
9 19.6	+46 45		15.0		
9 19.8	+44 46		14.0		
9 20.6	+49 25	2854	13.8		
9 20.8	+49 27	2856	13.9		
9 21.0	+48 23		15.7		
9 21.2	+49 34	2857	14.3		
9 21.3	+48 30		15.2		
9 21.6	+49 35		15.6		very compact
9 22.2	+45 45		15.3		
9 22.4	+49 32		15.6		double system
9 22.5	+49 38		15.5		double system
9 22.7	+49 30		15.4		
9 23.3	+46 05		14.2		
9 24.5	+48 44		15.3		
9 24.7	+44 44		14.7		
9 24.9	+48 43		15.2		
9 25.0	+44 53		14.3		
9 25.5	+49 26		15.7		
9 26.3	+44 39		15.1		
9 26.3	+45 30		15.7		
9 26.8	+49 42		14.6		
9 27.4	+49 28		15.4		very compact
9 27.7	+49 17		15.3		
9 27.8	+48 15		15.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
2712	-	-	12.84	SBb	12.8	SBb	-	-
2776	-	-	12.24	Sc	11.9	Sc	-	-



FIELD No. 239

9^h44^m $+47^o30'$

Survey Plate No. 672

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
13162	9 29 46.3	+ 49 39 37	6.50
13166	9 29 56.5	+ 45 44 11	6.61
13379	9 39 26.5	+ 48 39 36	6.34
13497	9 45 22.5	+ 46 15 18	5.20
13643	9 52 27.8	+ 50 03 25	5.34
13794	9 59 57.2	+ 46 26 19	7.86

CLUSTERS OF GALAXIES

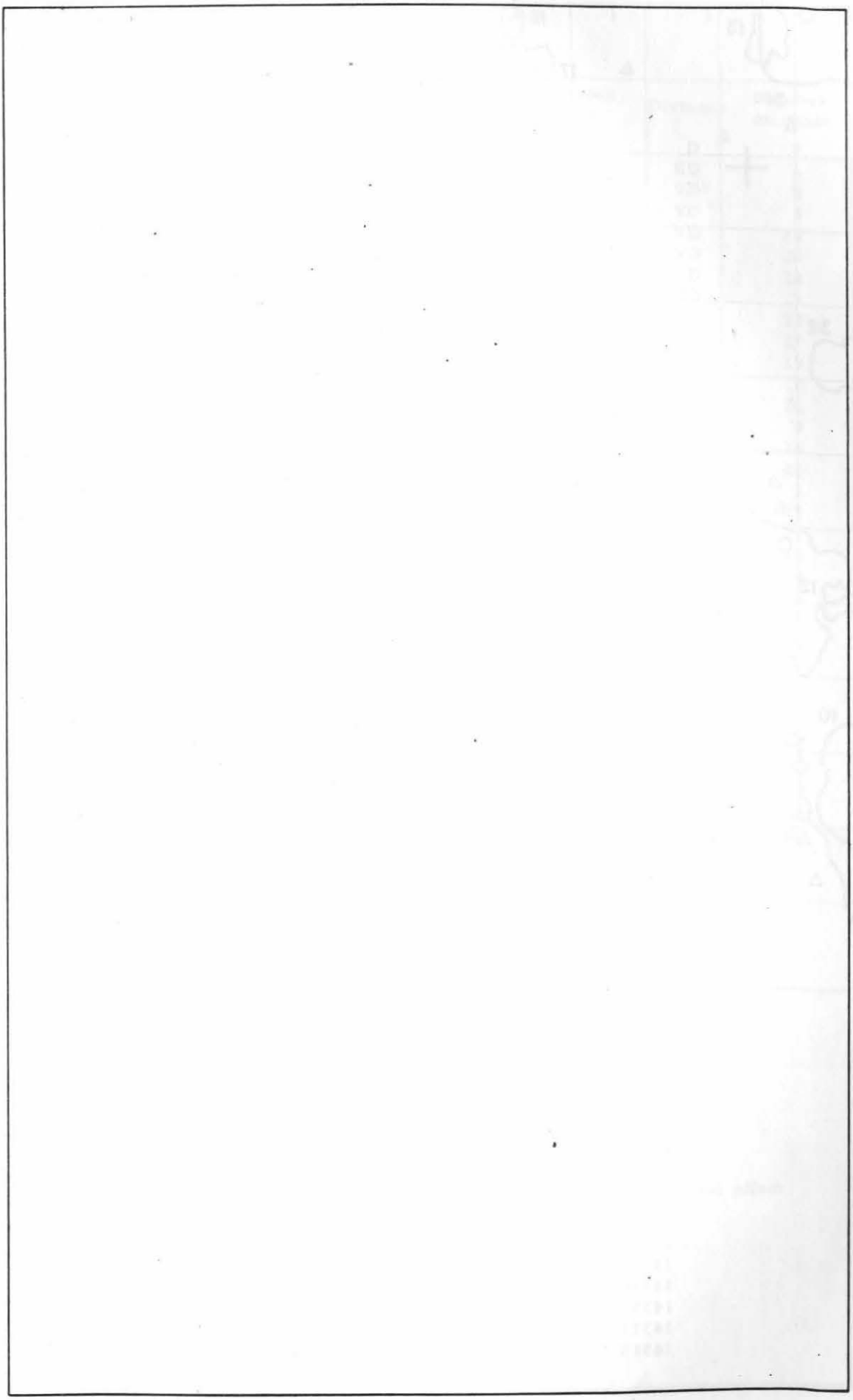
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0926.0 + 4813	compact	64	1.0	ED	6
0926.7 + 4851	compact	56	0.8	ED	7
0927.0 + 4721	medium compact	68	1.0	ED	5
0928.6 + 4932	compact	72	1.0	ED	8
0931.1 + 4947	medium compact	68	1.0	VD	13
0939.8 + 4714	compact	73	0.7	ED	2
0941.4 + 4502	compact	84	1.3	ED	1
0942.9 + 4902	medium compact	149	1.8	ED	21
0946.2 + 4835	medium compact	201	2.2	ED	19
0947.0 + 5030	medium compact	92	1.2	ED	20
0950.8 + 4833	open	144	3.0	D	18
0951.7 + 4742	compact	70	0.9	ED	9
0952.0 + 4622	medium compact	51	0.9	ED	22
0952.7 + 4413	open	119	4.1	MD	3
0953.2 + 4942	medium compact	81	0.9	ED	17
0954.3 + 4931	medium compact	89	0.9	ED	16
0954.4 + 4701	medium compact	71	1.2	ED	27
0954.9 + 4620	medium compact	83	1.1	VD	26
0955.4 + 4848	medium compact	73	0.8	ED	15
0956.2 + 4618	medium compact	67	0.8	ED	25
0956.9 + 4411	medium compact	84	2.3	D	4
0957.1 + 4607	compact	62	1.1	ED	23
0957.8 + 4838	medium compact	82	1.2	ED	24
1000.1 + 4911	open	164	5.3	D	10
1000.3 + 4820	medium compact	68	1.3	ED	14
1001.4 + 4912	medium compact	110	1.2	VD	11
1012.8 + 5337	open	685	28.3	Near	12

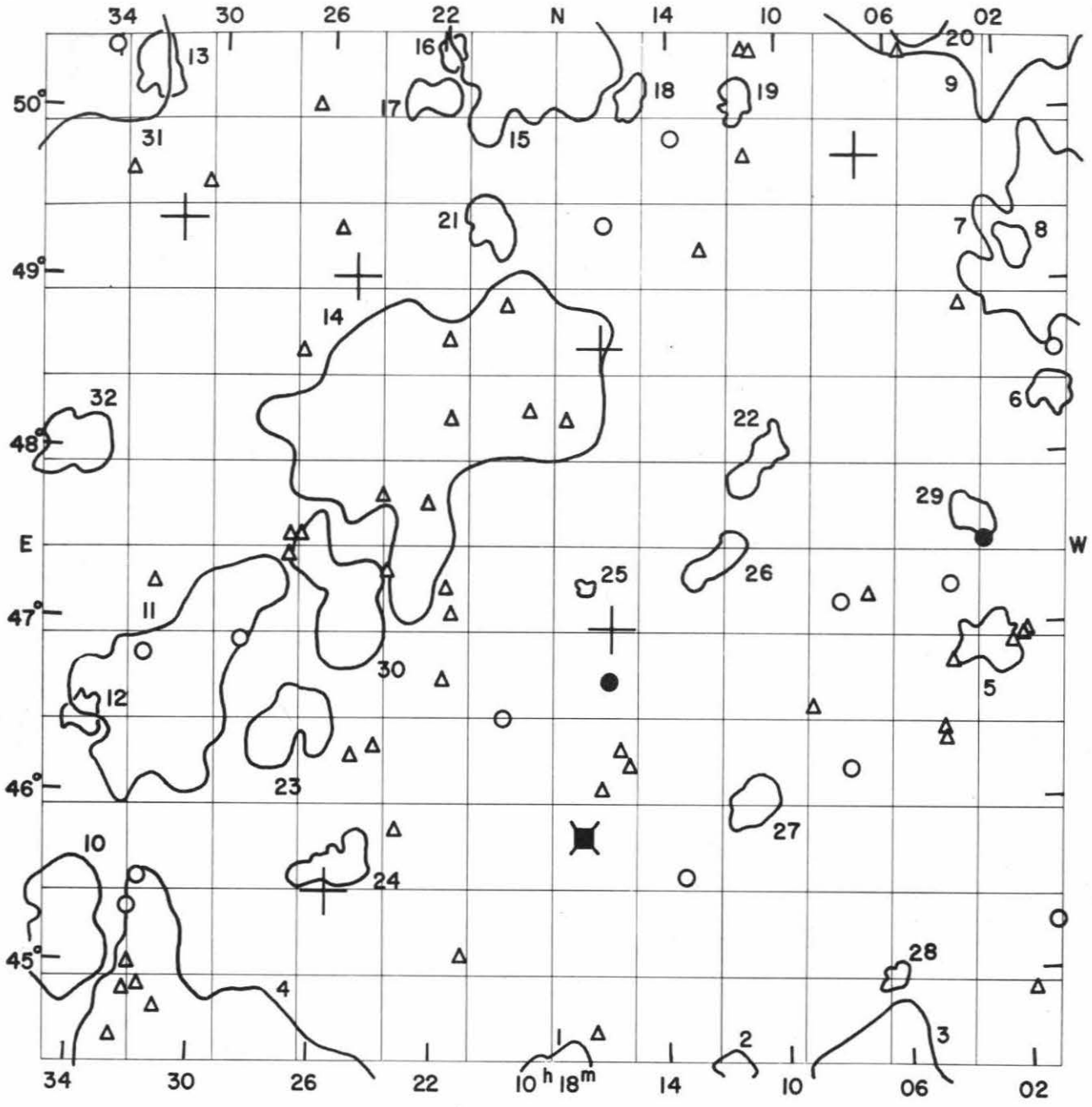
Average number of galaxies per cluster = 112.2

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
9 26.8	+49 42		14.6		
9 27.4	+49 28		15.4		very compact
9 27.7	+49 17		15.3		
9 27.8	+46 37		15.5		diffuse spiral
9 27.8	+48 15		15.7		
9 30.1	+46 23		15.2		
9 30.6	+47 05		15.6		extremely diffuse spiral
9 30.7	+44 29		15.1		
9 30.7	+50 14		15.5		compact, jet
9 31.0	+46 56		14.7		
9 33.3	+48 42		15.0		double system
9 34.1	+48 45		15.7		
9 34.9	+48 37		15.1		
9 35.4	+44 52		15.7		
9 35.5	+48 47		14.7		
9 36.0	+47 43		15.5		
9 36.1	+47 21		15.3		
9 36.3	+48 39		15.1		
9 37.2	+48 34		13.5		
9 37.7	+47 50		14.5		
9 37.8	+48 48		15.3		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
9 38.5	+47 12		15.5		diffuse spiral
9 38.6	+48 54		15.6		extremely diffuse spiral
9 38.9	+48 22		15.4		
9 43.0	+47 22		15.4		
9 43.3	+46 00		14.9		
9 44.2	+46 51		15.0		
9 45.3	+47 36		15.7		
9 45.5	+47 35		15.6		
9 45.9	+47 16		15.7		
9 46.1	+45 51		15.5		diffuse
9 46.8	+46 35		15.2		
9 47.0	+44 32	3009	14.5		
9 47.3	+48 43		15.4		compact
9 47.4	+44 34	3010	14.3		triple system 15.3+15.4+15.8
9 47.8	+47 25		15.0		
9 48.2	+45 10		15.5		diffuse spiral
9 49.7	+47 10		15.3		
9 51.5	+46 37		15.6		
9 52.5	+47 37		15.6		
9 53.2	+46 25		15.7		
9 53.6	+46 42		15.1		
9 53.7	+47 39		15.4		
9 53.9	+47 13		15.5		
9 54.4	+45 29		14.4		
9 54.5	+45 08		15.5		
9 54.5	+45 30		15.2		
9 55.7	+47 58		14.4		
9 56.7	+45 31		15.6		double system, 2 bridges
9 56.8	+46 29		14.8		
9 56.9	+45 45		15.6		
9 59.4	+45 02		15.0		
9 59.9	+45 51		15.7		
10 00.2	+48 37		14.9		
10 00.3	+46 52		14.6		





FIELD No. 240

10^h18^m + 47°30'

Survey Plate No. 1348

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ′ ″	
13955	10 07 06.9	+ 49 45 14	7.22
14145	10 15 54.5	+ 47 00 44	6.48
14154	10 16 21.1	+ 48 38 57	6.15
14357	10 24 59.3	+ 49 03 09	6.50
14377	10 25 36.2	+ 45 28 05	6.49
14515	10 31 18.4	+ 49 21 58	7.12

CLUSTER OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1000.1 + 4901	open	164	5.3	D	7
1000.3 + 4820	medium compact	68	1.3	ED	6
1001.4 + 4912	medium compact	110	1.2	VD	8
1002.9 + 4655	medium compact	102	1.8	VD	5
1003.3 + 4739	medium compact	80	1.3	VD	29
1004.7 + 5038	medium compact	111	2.3	VD	20
1006.5 + 4459	compact	53	0.7	VD	28
1007.0 + 4413	open	122	4.6	MD	3
1010.9 + 4759	medium compact	111	1.5	ED	22
1011.1 + 4600	compact	83	1.5	VD	27
1011.4 + 5007	medium compact	93	1.1	ED	19
1011.9 + 4428	compact	87	1.1	ED	2
1012.4 + 4725	medium compact	109	1.5	ED	26
1012.8 + 5337	open	685	28.3	Near	9
1015.4 + 5007	medium compact	67	1.1	ED	18
1016.8 + 4716	compact	48	0.5	ED	25
1017.5 + 4410	medium compact	104	3.3	VD	1
1018.8 + 5020	compact	301	4.6	VD	15
1020.3 + 4922	compact	157	1.6	ED	21
1021.8 + 5022	medium compact	67	0.9	ED	16
1022.1 + 4813	open	221	8.9	MD	14
1022.4 + 5006	medium compact	97	1.4	ED	17
1025.1 + 4709	medium compact	141	3.2	D	30
1025.2 + 4537	medium compact	145	1.8	ED	24
1026.9 + 4625	medium compact	166	2.4	ED	23
1028.2 + 4357	open	200	10.3	Near	4
1031.1 + 4635	medium compact	163	5.7	D	11
1032.6 + 5015	medium compact	87	1.7	VD	13
1034.0 + 4626	medium compact	64	1.2	ED	12
1034.2 + 4510	compact	202	3.3	VD	10
1034.8 + 4800	medium compact	96	2.0	ED	32
1035.3 + 5013	medium compact	108	5.5	Near	31

Average number of galaxies per cluster = 137.9

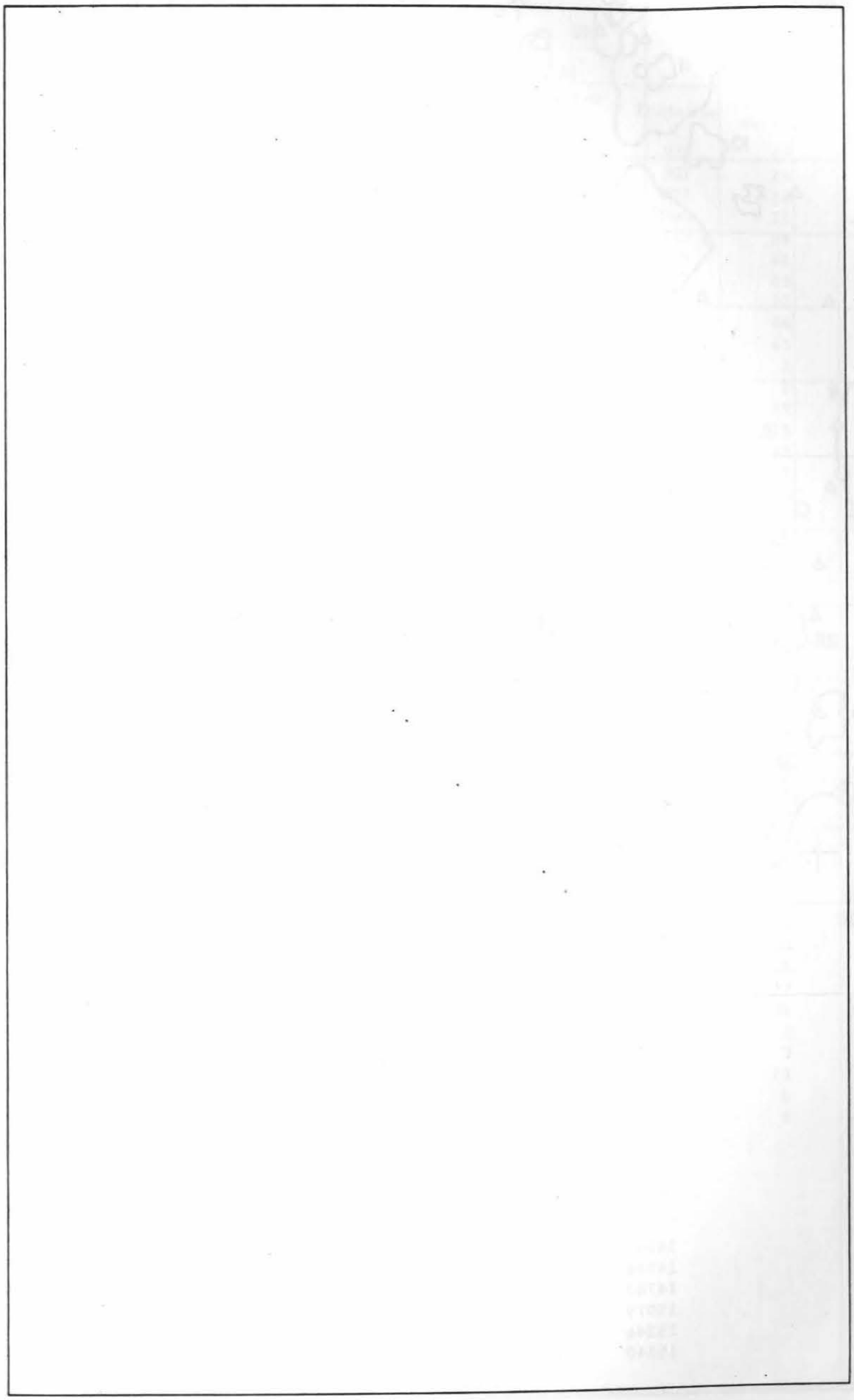
GALAXIES

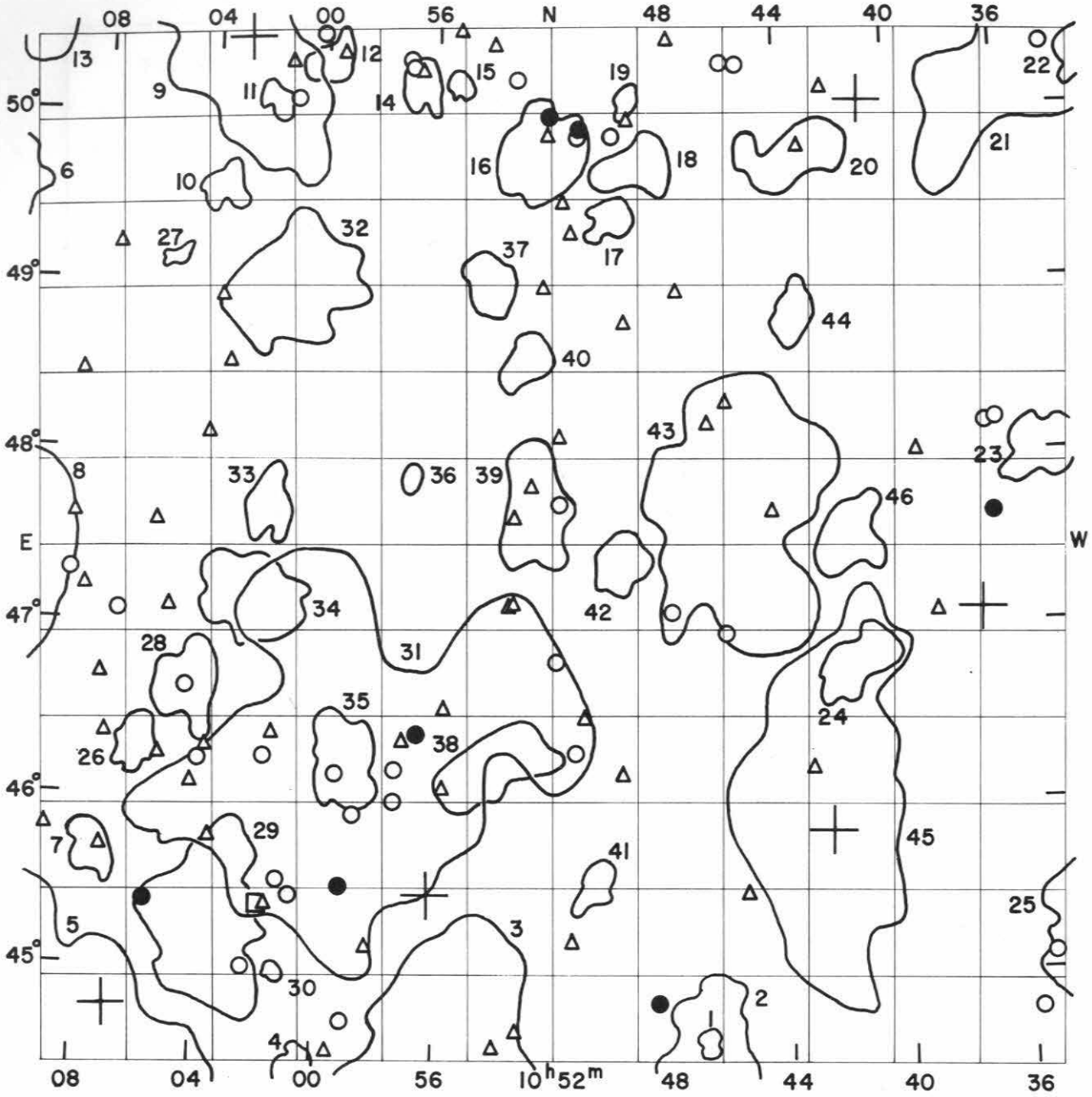
Position α 1950 δ (h m, o ′)	NGC IC*	m_p	V_s km/sec	Remarks
10 00.2 + 48 37		14.9		
10 01.0 + 45 17		14.7		
10 01.6 + 46 58		15.4		
10 01.7 + 46 56		15.7		
10 01.8 + 44 54		15.6		
10 02.0 + 46 54		15.5		diffuse
10 03.0 + 47 30	3111	14.0		
10 03.6 + 48 52		15.7		double system, tidal effect
10 04.2 + 46 48		15.1		
10 04.2 + 47 16		14.1		
10 04.5 + 46 21		15.3		compact
10 04.6 + 46 25		15.2		
10 05.5 + 50 21		15.4		
10 07.1 + 47 13		15.2		
10 07.8 + 46 12	3135	14.3		
10 08.0 + 47 10		14.6		

Position α 1950 h m	δ ° ′	NGC IC*	m_p	V_s km/sec	Remarks
10 09.1	+46 33		15.5		
10 11.0	+50 23		15.5		
10 11.2	+49 46		15.7		
10 11.3	+50 23		15.7		
10 12.9	+49 13		15.4		
10 13.4	+45 35		15.0		compact
10 13.8	+49 53		14.4		
10 15.3	+46 13		15.3		
10 15.6	+46 18		15.6		double nebula in halo
10 16.0	+46 43	3191	13.9		
10 16.2	+46 05		15.5		
10 16.3	+49 22		15.0		
10 16.4	+44 40		15.2		
10 16.9	+45 49	3198	10.7	+ 649	m_H = 11.7 Sc
10 17.6	+48 14		15.6		compact
10 18.9	+48 17		15.4		
10 19.7	+46 30		14.8		
10 19.7	+48 53		15.5		
10 21.0	+45 06		15.4		
10 21.5	+47 05		15.5		
10 21.6	+48 14		15.7		
10 21.7	+47 15		15.6		
10 21.7	+48 42		15.6		
10 21.8	+46 43		15.7		compact
10 22.4	+47 45		15.6		compact
10 23.3	+45 50		15.1		double system
10 23.8	+47 20		15.6		
10 23.9	+47 47		15.7		compact
10 24.0	+46 19		15.5		
10 24.8	+46 16		15.4		
10 25.6	+49 20		15.3		
10 26.5	+50 02		15.1		
10 26.8	+47 33		15.7		
10 26.9	+48 37		15.2		
10 27.1	+47 32		15.7		
10 27.2	+47 25		15.3		
10 28.8	+46 55		14.7		
10 30.4	+49 35		15.6		double system
10 31.2	+44 46		15.6		
10 31.7	+44 53		15.3		
10 31.8	+47 14		15.6		
10 31.9	+45 32		14.8		
10 32.1	+45 00		15.3		compact
10 32.1	+46 49		14.1		
10 32.2	+44 52		15.5		
10 32.2	+45 21		14.2		
10 32.7	+44 35		15.4		
10 33.3	+49 38		15.7		very compact
10 34.2	+50 22	3298	15.0		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3198	-	-	-	-	-	Sc	10.82	Sc-





FIELD No. 241

10^h52^m $+47^\circ30'$

Survey Plate No. 709

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
14659	10 37 09.2	+ 47 06 07	7.30
14748	10 40 56.3	+ 50 03 47	7.17
14783	10 42 24.5	+ 45 49 46	6.87
15079	10 56 08.9	+ 45 27 58	7.00
15246	11 02 53.4	+ 50 26 34	7.07
15340	11 06 51.6	+ 44 46 12	3.15

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1032.6 + 5015	medium compact	87	1.7	VD	22
1034.2 + 4510	compact	202	3.3	VD	25
1034.8 + 4800	medium compact	96	2.0	ED	23
1035.3 + 5013	medium compact	108	5.5	Near	21
1041.5 + 4647	compact	210	2.1	ED	24
1041.7 + 4731	medium compact	116	2.2	D	46
1042.6 + 4600	open	157	7.9	MD	45
1043.3 + 4944	medium compact	140	2.5	ED	20
1043.4 + 4848	medium compact	109	1.5	ED	44
1045.4 + 4737	medium compact	223	6.9	D	43
1046.7 + 4430	medium compact	159	3.7	VD	2
1046.8 + 4436	compact	98	0.7	ED	1
1049.0 + 4941	open	120	2.0	ED	18
1049.4 + 5004	compact	55	0.8	ED	19
1049.6 + 4723	compact	100	1.8	ED	42
1049.9 + 4923	medium compact	100	1.4	ED	17
1050.6 + 4530	compact	84	1.3	ED	41
1052.3 + 4945	medium compact	114	3.0	ED	16
1052.5 + 4741	medium compact	73	2.9	VD	39
1052.9 + 4834	compact	68	1.5	ED	40
1054.0 + 4612	open	73	2.9	D	38
1054.1 + 4900	medium compact	99	1.7	ED	37
1055.3 + 5010	medium compact	80	0.8	ED	15
1055.6 + 4432	open	126	5.6	MD	3
1056.6 + 5010	open	95	1.5	ED	14
1056.8 + 4753	compact	65	0.7	ED	36
1058.6 + 4611	open	140	11.2	Near	31
1059.0 + 4614	medium compact	160	2.4	VD	35
1100.0 + 5018	medium compact	73	1.4	VD	12
1100.4 + 4423	compact	106	1.6	ED	4
1101.0 + 4858	medium compact	113	3.8	D	32
1101.3 + 4459	compact	53	0.5	ED	30
1101.8 + 4741	compact	131	1.7	ED	33
1102.0 + 5004	compact	76	1.1	ED	11
1102.2 + 4710	medium compact	76	2.9	D	34
1103.5 + 4515	medium compact	142	4.5	D	29
1103.5 + 5029	open	176	6.5	MD	9
1103.7 + 4932	medium compact	101	1.3	ED	10
1104.5 + 4638	medium compact	121	2.3	MD	28
1105.3 + 4907	compact	53	0.6	ED	27
1106.2 + 4617	medium compact	140	1.4	ED	26
1106.7 + 4414	medium compact	332	9.2	MD	5
1107.4 + 4540	medium compact	123	1.5	ED	7
1111.0 + 5037	medium compact	82	2.8	D	13
1111.4 + 4934	medium compact	205	2.2	ED	6
1117.0 + 4653	open	210	12.8	Near	8

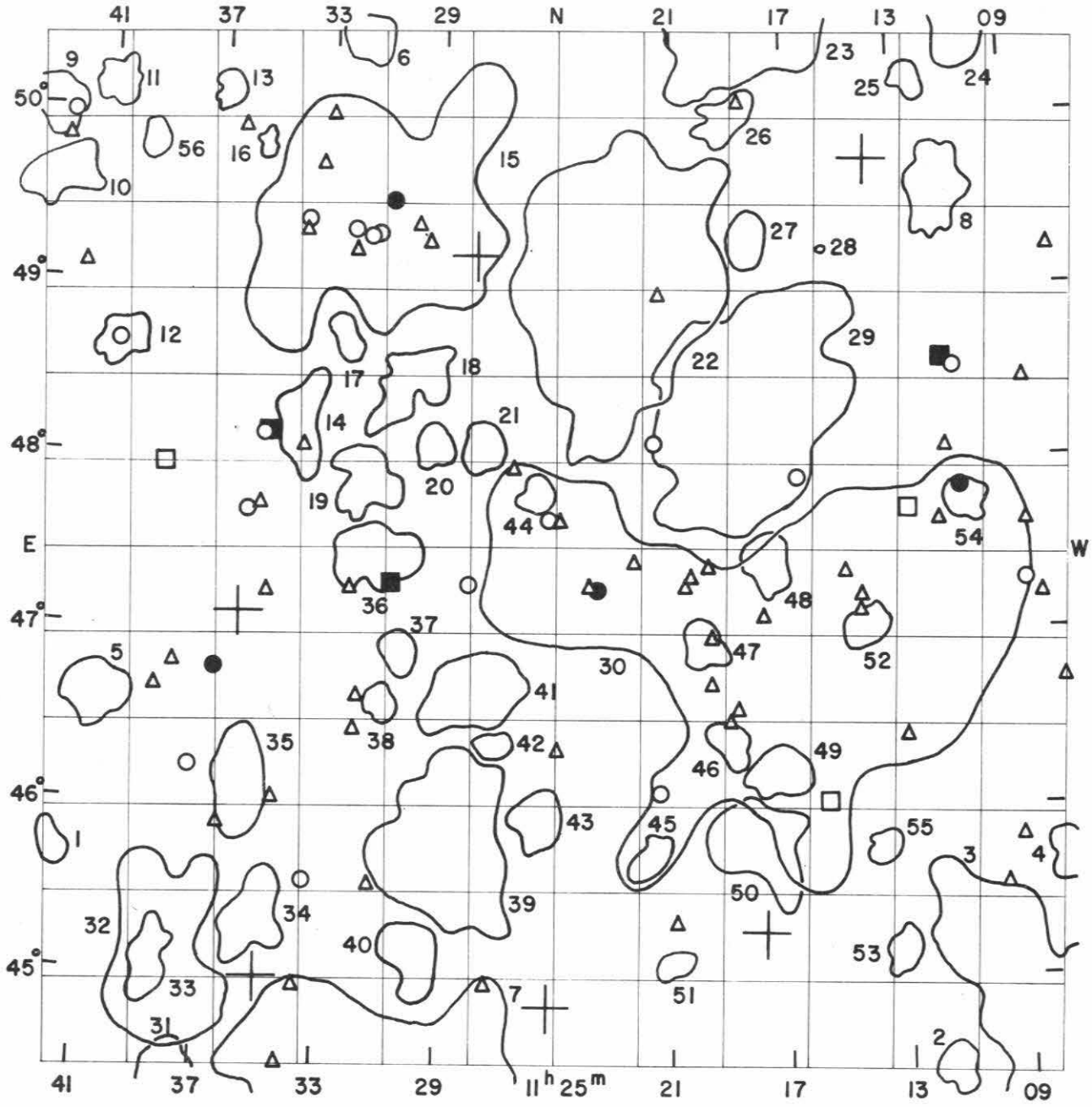
Average number of galaxies per cluster = 121.1

GALAXIES

Position α 1950 δ (h m, o ′)	NGC IC*	m_p	V_s km/sec	Remarks
10 34.2 + 50 22	3298	15.0		
10 35.2 + 45 06		14.9		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
10 35.7	+44 47		15.0		
10 36.5	+48 12		14.4		
10 36.6	+47 39	3320	13.1		m_H = 12.9 S
10 36.8	+48 11		14.5		
10 38.7	+47 05		15.6		
10 39.3	+48 01		15.1		
10 42.2	+50 08		15.5		
10 43.1	+46 11		15.4		
10 43.1	+49 48		15.1		
10 44.4	+47 41		15.4		
10 45.3	+50 17		14.9		
10 45.4	+45 28		15.6		
10 45.9	+50 18		14.9		
10 46.0	+46 59		15.0		
10 46.0	+48 18		15.5		
10 46.7	+48 11		15.1		
10 47.6	+48 57		15.1		
10 47.8	+47 07		15.0		
10 47.8	+50 20		15.5		
10 48.4	+44 50		13.2		
10 49.3	+49 57		15.4		
10 49.5	+48 46		15.7		
10 49.6	+46 10		15.4		
10 49.8	+49 52		14.7		
10 50.9	+46 29		15.3		
10 51.0	+49 52		14.8		
10 51.0	+49 55		13.9		
10 51.1	+46 17		14.9		
10 51.3	+45 12		15.7		
10 51.3	+49 18		15.4		
10 51.6	+49 28		15.6		
10 51.7	+47 44		15.0		
10 51.8	+48 07		15.4		
10 51.9	+46 49		14.9		
10 52.0	+49 59		14.0		
10 52.1	+49 52		15.3		
10 52.3	+48 59		15.7		
10 52.7	+47 51		15.6		
10 53.2	+44 40		15.7		compact
10 53.2	+47 40		15.5		
10 53.2	+50 12		15.0		
10 53.3	+47 09		15.7		
10 53.4	+47 08		15.7		
10 54.0	+44 35		15.6		
10 54.0	+50 24		15.7		compact
10 55.2	+50 29		15.6		
10 55.7	+46 05		15.7		
10 55.7	+46 32		15.1		
10 56.6	+46 23	3478	13.7		m_H = 13.2
10 56.6	+50 15		15.5		compact
10 56.9	+50 17		14.8		
10 57.0	+50 19		14.4		
10 57.1	+46 20		15.1		
10 57.3	+46 00		14.4		
10 57.3	+46 11		14.5		
10 58.1	+45 10		15.2		
10 58.7	+45 55		14.1		
10 59.0	+44 43		14.7		double system
10 59.1	+45 30		13.4		

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
10 59.3	+ 46 09		14.5		
10 59.4	+ 44 33		15.2		compact
10 59.4	+ 50 21		15.5		
11 00.2	+ 50 29		14.5		
11 00.8	+ 45 27		14.8		double system
11 01.1	+ 50 05		14.4		very faint companion
11 01.2	+ 45 32		14.8		
11 01.3	+ 50 17		15.2		
11 01.5	+ 46 23		15.5		
11 01.6	+ 45 24		15.3		
11 01.8	+ 45 24		13.0		
11 01.8	+ 46 15		14.7		
11 02.2	+ 45 00		14.6		
11 03.2	+ 48 32		15.7		diffuse
11 03.5	+ 45 47		15.6		
11 03.6	+ 48 55		15.1		
11 03.8	+ 46 18		15.6		
11 03.9	+ 46 14		14.6		
11 03.9	+ 48 07		15.6		double nebula
11 04.2	+ 46 06		15.3		
11 04.4	+ 46 39		14.8		two faint jets
11 05.1	+ 47 07		15.2		
11 05.2	+ 46 15		15.2		
11 05.6	+ 45 24		14.0		
11 05.6	+ 47 36		15.5		
11 06.8	+ 47 05		14.3		
11 07.1	+ 46 22		15.6		very diffuse
11 07.2	+ 45 43		15.7		
11 07.3	+ 49 14		15.5		
11 07.4	+ 46 43		15.7		
11 08.0	+ 47 14		15.4		
11 08.4	+ 48 28		15.4		
11 08.5	+ 47 39		15.3		
11 08.6	+ 47 19		14.3		
11 09.0	+ 45 50		15.2		



FIELD No. 242

11^h25^m $+47^o30'$

Survey Plate No. 700

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
15506	11 13 53.3	+ 49 44 58	5.97
15582	11 17 46.6	+ 45 16 21	6.66
15726	11 25 13.4	+ 44 50 29	6.86
15780	11 27 45.7	+ 49 12 41	7.07
15939	11 34 56.2	+ 44 59 36	6.58
15970	11 35 52.8.	+ 47 06 42	6.25

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1106.7 + 4414	medium compact	332	9.2	MD	3
1107.4 + 4540	medium compact	123	1.5	ED	4
1110.7 + 4746	compact	84	1.2	VD	54
1111.0 + 5037	medium compact	82	2.8	D	24
1111.4 + 4934	medium compact	205	2.2	ED	8
1111.6 + 4429	medium compact	68	1.4	ED	2
1112.3 + 5013	medium compact	72	1.0	ED	25
1113.3 + 4509	medium compact	91	1.2	ED	53
1113.7 + 4545	compact	55	0.9	ED	55
1114.2 + 4702	compact	117	1.3	ED	52
1115.5 + 4914	compact	32	0.2	ED	28
1117.0 + 4653	open	210	12.8	Near	30
1117.2 + 4612	compact	156	1.8	ED	49
1117.6 + 5033	medium compact	203	4.8	MD	23
1117.7 + 4725	medium compact	71	1.7	VD	48
1118.0 + 4547	medium compact	108	3.2	D	50
1118.2 + 4916	medium compact	57	1.4	VD	27
1118.4 + 4818	compact	483	6.8	D	29
1119.0 + 4621	compact	129	1.3	ED	46
1119.0 + 4959	medium compact	62	1.6	D	26
1119.9 + 4656	compact	83	1.3	ED	47
1120.8 + 4505	medium compact	64	1.0	ED	51
1121.7 + 4543	compact	120	1.3	ED	45
1122.8 + 4900	medium compact	365	7.8	MD	22
1125.6 + 4556	compact	117	1.7	ED	43
1125.6 + 4749	compact	71	1.1	ED	44
1127.1 + 4621	medium compact	59	1.0	ED	42
1127.5 + 4804	compact	80	1.5	VD	21
1127.8 + 4640	open	77	2.9	MD	41
1128.6 + 4546	open	140	4.8	D	39
1129.2 + 4805	medium compact	56	1.3	VD	20
1129.8 + 4506	compact	94	2.0	D	40
1130.1 + 4826	medium compact	100	2.2	D	18
1130.3 + 4654	compact	67	1.1	ED	37
1130.9 + 4635	medium compact	56	1.0	ED	38
1131.1 + 4726	medium compact	71	2.2	D	36
1131.2 + 4923	compact	257	7.9	Near	15
1131.6 + 4421	open	113	7.3	Near	7
1131.6 + 4753	medium compact	110	2.0	VD	19
1131.7 + 5028	compact	106	1.6	ED	6
1132.4 + 4842	compact	76	1.1	ED	17
1133.9 + 4812	compact	187	2.0	ED	14
1135.1 + 4518	medium compact	124	2.1	VD	34
1135.5 + 4948	compact	60	0.8	ED	16
1135.6 + 4606	compact	125	2.3	ED	35
1136.9 + 5007	compact	77	1.1	VD	13
1137.8 + 4425	medium compact	92	1.8	VD	31
1137.9 + 4505	medium compact	120	4.6	MD	32
1138.5 + 4501	compact	102	1.7	VD	33
1139.5 + 4948	compact	58	1.0	ED	56
1140.4 + 4839	compact	120	1.6	ED	12
1140.7 + 4636	compact	132	2.0	VD	5
1141.0 + 5009	compact	70	1.4	ED	11
1141.9 + 4543	medium compact	70	1.2	ED	1
1142.9 + 4936	medium compact	122	2.0	ED	10
1143.1 + 5000	medium compact	102	1.7	VD	9

Average number of galaxies per cluster = 117.6

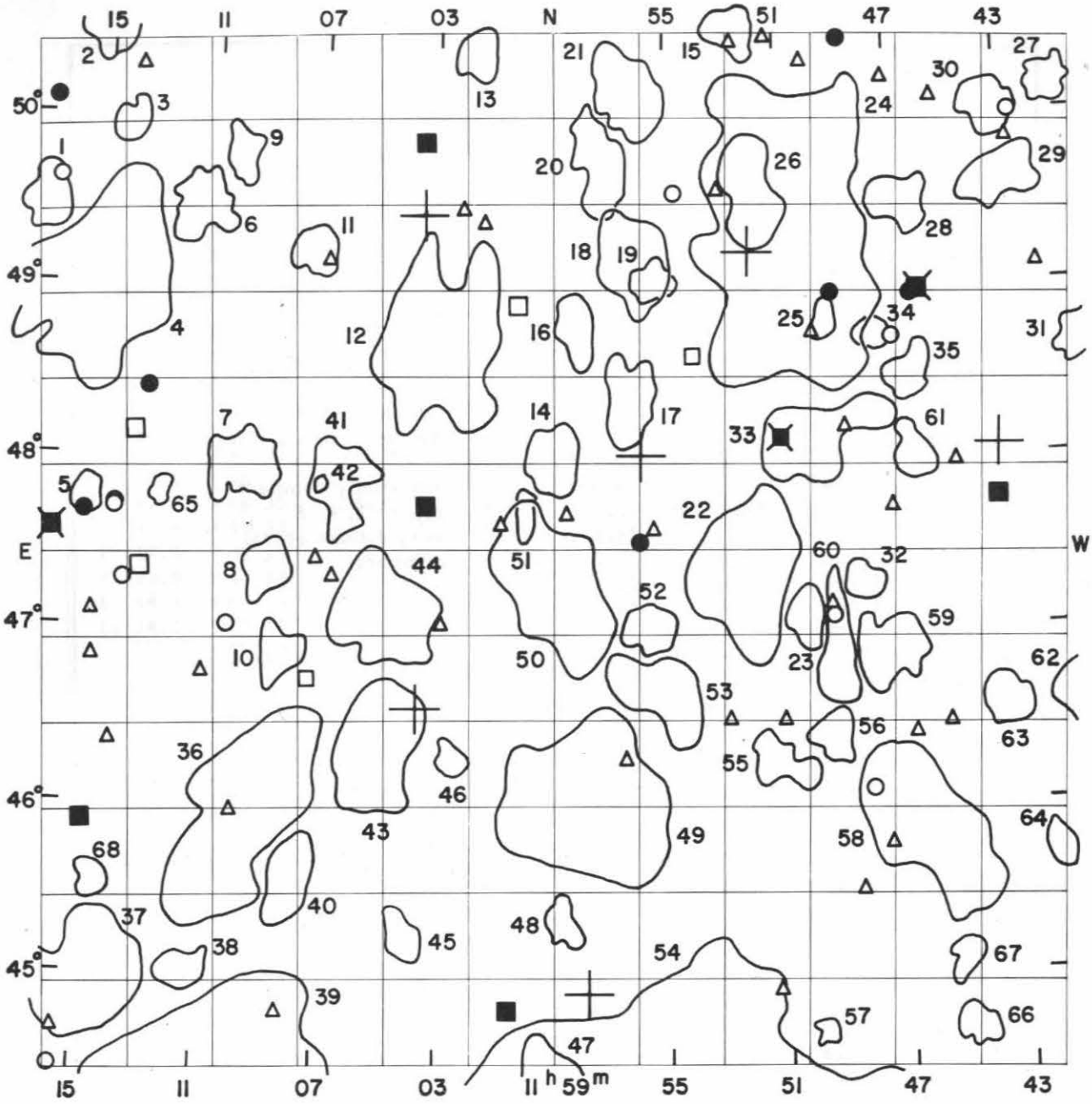
GALAXIES

Position α 1950 δ		NGC IC*	m_p	V_s km/sec	Remarks
h m	o '				
11 07.3	+49 14		15.5		
11 07.4	+46 43		15.7		
11 08.0	+47 14		15.4		
11 08.4	+48 28		15.4		
11 08.5	+47 39		15.3		
11 08.6	+47 19		14.3		
11 09.0	+45 50		15.2		
11 09.6	+45 33		15.3		
11 10.8	+47 51		13.6		
11 10.9	+48 33	3577	14.7		
11 11.2	+48 05		15.6		
11 11.3	+48 36	3583	11.6		m_H = 12.2 S
11 11.6	+47 39		15.4		
11 12.6	+47 43	3595	13.0		
11 12.8	+46 25		15.3		
11 14.3	+47 14		15.2		
11 14.4	+47 08		15.4		extremely compact
11 14.8	+47 22		15.2		very compact
11 15.5	+46 02	3614	12.7		m_H = 12.9 S
11 16.4	+47 55		14.7		
11 17.8	+47 06		15.7		very compact
11 18.5	+50 05		15.6		
11 18.6	+46 35		15.7		
11 18.9	+46 30		15.1		
11 19.5	+46 59		15.7		
11 19.6	+46 43		15.5		compact
11 19.7	+47 23		15.7		
11 20.2	+47 20		15.6		
11 20.4	+47 17		15.7		
11 20.8	+45 20		15.6		
11 21.3	+46 06		14.8		
11 21.3	+48 58		15.7		
11 21.5	+48 08	687*	15.0		compact
11 22.2	+47 25		15.6		
11 23.5	+47 15	3677	13.5		
11 23.8	+47 17		15.5		
11 24.9	+46 20		15.6		compact
11 24.9	+47 39		15.3		
11 25.2	+47 40		14.9		
11 26.3	+47 58		15.5		double system
11 27.3	+44 58		15.7		diffuse
11 27.9	+47 18		14.9		
11 29.4	+49 17		15.4		double system, faint bridge + jets
11 29.9	+49 23		15.7		very compact
11 30.6	+47 18	3726	11.2	+ 948	m_H = 11.7 S
11 30.8	+49 31		13.9		
11 31.2	+45 33		15.7		
11 31.2	+49 20	708*	14.2		
11 31.5	+49 19	709*	15.0		compact
11 31.7	+46 39		15.7		
11 31.8	+46 27		15.6		
11 32.0	+47 16		15.1		
11 32.0	+49 14	711*	15.2		compact
11 32.1	+49 21	712*	14.8		
11 33.0	+50 01		15.5		
11 33.3	+49 43		15.7		

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
11 33.4	+45 34	3741	14.2		
11 33.7	+44 57		15.7		
11 33.8	+48 06		15.6		
11 33.8	+49 24		14.9		
11 33.9	+49 20		15.5		very compact
11 34.2	+44 29		15.6		
11 34.6	+46 03		15.4		diffuse
11 35.0	+47 14		15.7		
11 35.0	+48 10	3769	11.7		m_H = 12.5 SBc
11 35.1	+48 09		14.7		
11 35.3	+47 45		15.1		double system
11 35.7	+47 43		14.9		double system, bridge + jets
11 36.2	+49 56		15.7		
11 36.3	+45 54		15.3		extremely compact
11 36.7	+46 47	3782	13.1		m_H = 12.9 S
11 37.4	+46 13		14.6		very diffuse spiral
11 38.1	+46 49		15.2		compact
11 38.6	+47 58	3811	13.0		
11 38.7	+46 40		15.4		
11 40.4	+48 40		15.0		
11 41.8	+49 07		15.5		extremely diffuse spiral
11 42.5	+50 00		14.8		
11 42.6	+49 51	731*	15.6		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3583	11.7	-	-	-	-	-	-	-
3614	12.1	-	-	-	-	-	-	-
3677	12.9	-	-	-	-	-	-	-
3726	10.55	Sc	-	-	11.8	Sc	10.84	Sc-
3741	13.4	-	-	-	-	-	-	-
3769	12.0	-	-	-	-	-	-	-
3782	12.3	-	-	-	-	-	-	-



FIELD No. 243

11^h59^m $+47^o30'$

Survey Plate No. 1338

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
16137	11 43 25.0	+ 48 03 24	3.85
16285	11 52 04.6	+ 49 12 45	7.42
16377	11 55 57.9	+ 48 02 36	7.05
16416	11 57 50.4	+ 44 54 30	7.47
16537	12 03 34.5	+ 49 26 12	7.77
16545	12 03 47.3	+ 46 33 46	7.55

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1140.4 + 4839	compact	120	1.6	ED	31
1140.7 + 4636	compact	132	2.0	VD	62
1141.0 + 5009	compact	70	1.4	ED	27
1141.9 + 4543	medium compact	70	1.2	ED	64
1142.9 + 4936	medium compact	122	2.0	ED	29
1143.1 + 5000	medium compact	102	1.7	VD	30
1143.5 + 4634	open	95	1.6	VD	63
1144.9 + 4442	medium compact	114	1.3	ED	66
1145.1 + 4504	medium compact	83	1.2	ED	67
1146.3 + 4551	open	216	4.3	D	58
1146.3 + 4800	medium compact	96	1.4	ED	61
1146.6 + 4829	compact	146	1.5	ED	35
1146.6 + 4929	medium compact	122	1.8	ED	28
1147.4 + 4653	open	60	2.1	VD	59
1147.8 + 4843	compact	58	0.9	ED	34
1148.2 + 4717	compact	95	1.2	ED	32
1149.1 + 4650	open	105	2.1	MD	60
1149.4 + 4623	medium compact	98	1.5	ED	56
1149.4 + 4848	medium compact	55	0.9	VD	25
1149.8 + 4806	open	117	3.0	MD	33
1149.9 + 4441	medium compact	72	0.7	VD	57
1150.2 + 4705	medium compact	110	1.5	ED	23
1150.6 + 4920	open	171	7.7	MD	24
1151.1 + 4613	medium compact	128	1.6	ED	55
1151.9 + 4933	medium compact	91	2.5	VD	26
1152.3 + 4720	open	111	4.1	VD	22
1152.6 + 5030	medium compact	93	1.5	ED	15
1155.2 + 4639	open	65	2.7	VD	53
1155.6 + 4901	compact	98	1.3	ED	19
1155.7 + 4701	medium compact	99	1.5	ED	52
1156.1 + 4909	medium compact	115	2.7	D	18
1156.4 + 4820	compact	168	2.1	ED	17
1156.4 + 5009	compact	244	2.3	ED	21
1157.2 + 4332	open	463	15.5	Near	54
1157.3 + 4943	medium compact	148	2.2	VD	20
1157.8 + 4600	medium compact	98	5.2	MD	49
1158.1 + 4845	medium compact	156	1.5	ED	16
1158.7 + 4519	medium compact	91	1.2	ED	48
1159.0 + 4424	medium compact	192	2.2	ED	47
1159.0 + 4716	medium compact	110	4.0	D	50
1159.0 + 4800	compact	194	1.9	ED	14
1200.0 + 4741	medium compact	62	1.0	ED	51
1201.7 + 5022	medium compact	104	1.5	VD	13
1202.5 + 4615	medium compact	59	1.0	ED	46
1203.0 + 4841	medium compact	110	4.6	MD	12
1204.0 + 4514	compact	99	1.3	ED	45
1204.8 + 4707	open	102	3.4	D	44
1205.0 + 4619	open	70	3.3	VD	43
1206.4 + 4750	open	61	2.3	VD	41
1207.1 + 4751	compact	54	0.4	ED	42
1207.5 + 4913	open	87	1.5	ED	11
1207.8 + 4534	medium compact	149	2.0	ED	40
1208.4 + 4651	medium compact	102	1.6	ED	10
1208.9 + 4721	compact	144	1.7	ED	8
1209.4 + 4556	open	105	5.0	MD	36
1209.7 + 4429	open	120	5.7	MD	39
1209.7 + 4758	open	208	2.1	ED	7

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1210.1 + 4945	medium compact	58	1.4	VD	9
1211.3 + 4501	medium compact	99	1.4	ED	38
1211.5 + 4927	medium compact	218	2.0	ED	6
1212.7 + 4747	medium compact	59	0.7	ED	65
1214.4 + 4955	compact	87	1.2	ED	3
1214.6 + 4531	medium compact	114	1.1	ED	68
1214.8 + 4456	open	96	4.0	MD	37
1215.1 + 5033	medium compact	94	2.1	ED	2
1215.3 + 4745	medium compact	87	1.1	ED	5
1215.3 + 4858	open	114	5.3	MD	4
1217.1 + 4929	compact	109	1.8	ED	1

Average number of galaxies per cluster = 115.6

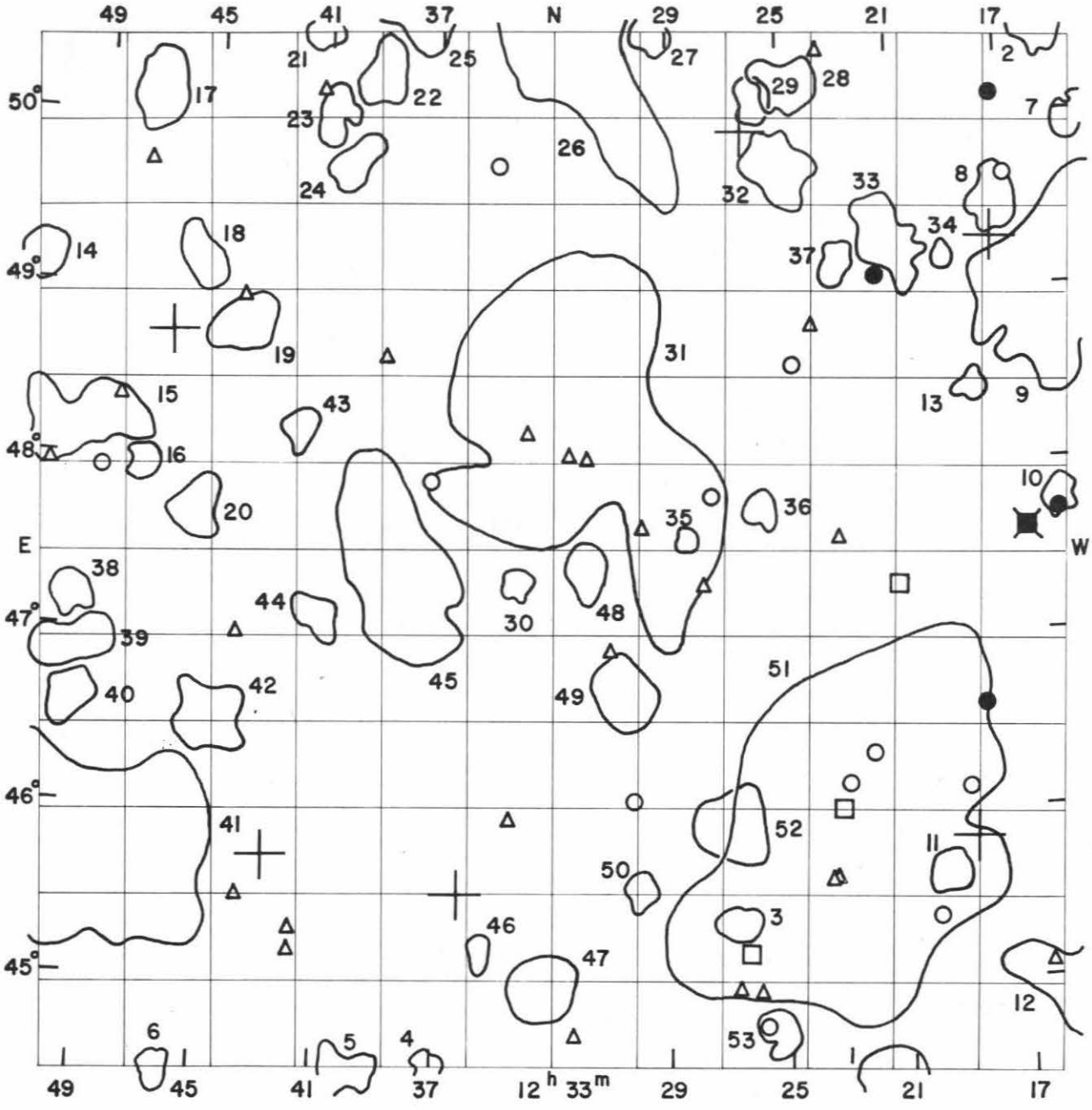
GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
11 41.8	+ 49 07		15.5		extremely diffuse spiral
11 42.5	+ 50 00		14.8		
11 42.6	+ 49 51	731*	15.6		
11 43.5	+ 47 46	3877	11.8		m_H = 12.0 Sc
11 44.9	+ 47 58		15.7		
11 45.4	+ 46 28		15.5		
11 45.4	+ 50 05		15.2		
11 46.0	+ 48 59	3893	10.6	+ 955	m_H = 11.0 Sc
11 46.3	+ 48 56	3896	14.0		
11 46.6	+ 46 24		15.6		
11 47.0	+ 48 42	3906	14.1		
11 47.0	+ 50 12		15.6		diffuse
11 47.2	+ 47 43		15.7		
11 47.6	+ 45 45		15.6		
11 48.2	+ 46 05		14.6		
11 48.5	+ 45 30		15.7		compact
11 48.6	+ 50 27	3922	13.8		
11 48.8	+ 48 11		15.7		
11 49.1	+ 48 57	3928	13.1		
11 49.3	+ 47 05		15.0		double system
11 49.4	+ 47 09		15.5		compact
11 49.9	+ 48 44	3932	15.1		
11 50.0	+ 50 18	3924	15.7		diffuse spiral
11 51.1	+ 46 29		15.2		
11 51.1	+ 48 08	3949	10.9	+ 681	m_H = 11.6 Sc
11 51.3	+ 50 29		15.6		
11 51.4	+ 44 55		15.5		
11 52.6	+ 50 26		15.5		
11 53.0	+ 46 30		15.6		double system, bridge
11 53.1	+ 49 34		15.5		
11 54.1	+ 48 36	3985	13.0		m_H = 12.9 S
11 54.7	+ 49 33		14.2		
11 55.5	+ 47 37	4001	15.6		
11 56.0	+ 47 32	4010	13.1		
11 56.6	+ 46 16		15.7		
11 58.6	+ 47 42		15.7		
12 00.3	+ 48 55	4047	12.8		m_H = 12.8
12 00.6	+ 44 48	4051	11.5	+ 627	m_H = 11.7 Sb
12 00.9	+ 47 38		15.6		

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
12 01.5	+49 23		15.6		
12 02.2	+49 28		15.4		
12 02.9	+47 03		15.5		
12 03.4	+47 45	4096	11.6		m_H = 12.2 Sc
12 03.6	+49 52	4100	11.7		m_H = 11.9 Sc
12 06.6	+47 20		15.2		
12 07.0	+49 10		15.4		
12 07.2	+47 26		15.4		
12 07.4	+46 43	4144	12.3		m_H = 12.4 S
12 08.3	+44 47		15.4		
12 09.9	+45 58		15.5		
12 10.3	+47 02		14.8		compact
12 11.0	+46 45		15.1		
12 13.3	+47 21	4217	12.4		m_H = 11.9 S
12 13.3	+48 23	4218	13.2		
12 13.7	+48 09	4220	12.4	+ 979	m_H = 12.4 Sc
12 13.9	+50 17		15.7		compact
12 14.0	+47 17	4226	14.4		
12 14.2	+46 21		15.7		
12 14.3	+47 42	4232	14.6		
12 14.3	+47 43	4231	14.5		
12 15.0	+45 53	4242	11.9		m_H = 11.8 S
12 15.0	+46 50		15.4		
12 15.0	+47 05		15.3		
12 15.4	+47 41	4248	13.9		
12 15.6	+44 40		15.3		
12 15.7	+44 27		14.2		double system, faint bridge
12 16.5	+47 35	4258	9.6	+ 420	m_H = 10.2 Sb
12 16.7	+49 38		14.3		
12 17.0	+50 05		13.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3877	11.6	-	-	-	-	-	-	-
3893	11.7	Sc	-	-	11.0	Sc	-	-
3949	11.3	Sc	-	-	11.3	Sc	-	-
3985	13.0	-	-	-	-	-	-	-
4010	12.4	-	-	-	-	-	-	-
4047	12.5	-	-	-	-	-	-	-
4051	10.6	Sbc	-	-	11.0	Sb	10.81	Sb+
4096	11.1	Sc	-	-	-	-	10.88	Sc+
4100	11.6	Sc	-	-	-	-	-	-
4144	11.5	-	-	-	-	-	-	-
4217	11.3	-	-	-	-	-	-	-
4220	11.9	-	-	-	12.2	Sa	-	-
4242	11.9	S	-	-	-	-	11.39	Sc+
4248	-	-	-	-	-	-	13.07	S
4258	9.3	Sb	9.39	Sb	9.0	Sb	8.90	Sb+



FIELD No. 244

12^h33^m $+47^o30'$

Survey Plate No. 1408

GC STARS

Nos.	R.A.	Decl.	m_p
	h m o	o ' "	
16814	12 17 21.3	+ 49 15 41	5.56
16846	12 18 35.1	+ 45 47 33	7.24
17008	12 26 15.1	+ 49 54 42	7.12
17219	12 36 10.6	+ 45 29 32	7.09
17342	12 42 47.1	+ 45 42 48	Var.
17402	12 46 24.0	+ 48 44 20	6.20

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1214.4 + 4955	compact	87	1.2	ED	7
1214.8 + 4456	open	96	4.0	MD	12
1215.1 + 5033	medium compact	94	2.1	ED	2
1215.3 + 4745	medium compact	87	1.1	ED	10
1215.3 + 4858	open	114	5.3	MD	9
1217.1 + 4929	compact	109	1.8	ED	8
1218.2 + 4824	medium compact	72	0.9	ED	13
1219.1 + 4910	compact	44	0.7	ED	34
1219.6 + 4536	compact	55	1.3	ED	11
1221.0 + 4915	medium compact	90	2.3	D	33
1221.9 + 4347	open	118	5.6	MD	1
1222.6 + 4548	medium compact	162	10.7	Near	51
1222.9 + 4908	compact	82	1.2	ED	37
1224.6 + 5011	medium compact	78	1.8	D	28
1225.0 + 4943	medium compact	98	2.2	D	32
1225.3 + 4442	compact	50	1.4	ED	53
1225.8 + 4743	compact	69	1.1	VD	36
1225.8 + 5006	compact	59	1.3	ED	29
1226.7 + 4519	compact	62	1.2	ED	3
1227.0 + 4555	medium compact	87	2.2	ED	52
1228.3 + 4734	compact	47	0.7	ED	35
1229.6 + 5029	compact	62	1.2	ED	27
1230.0 + 4530	medium compact	50	1.1	ED	50
1230.5 + 4639	compact	66	2.2	VD	49
1231.4 + 5044	medium compact	293	7.8	Near	26
1231.8 + 4810	open	175	9.0	Near	31
1231.9 + 4722	medium compact	80	1.5	ED	48
1233.4 + 4458	medium compact	108	2.2	VD	47
1234.1 + 4717	medium compact	57	1.0	ED	30
1235.4 + 4510	compact	62	0.9	ED	46
1237.0 + 4429	compact	105	1.1	ED	4
1238.0 + 5043	medium compact	122	3.1	VD	25
1238.3 + 4725	open	133	4.7	D	45
1239.1 + 5015	medium compact	88	1.6	ED	22
1239.8 + 4429	medium compact	95	1.6	ED	5
1240.1 + 4944	medium compact	75	1.5	ED	24
1240.9 + 5000	medium compact	88	1.3	VD	23
1241.0 + 4705	medium compact	61	1.3	ED	44
1241.3 + 5030	compact	54	1.1	ED	21
1241.8 + 4811	compact	61	1.1	ED	43
1243.9 + 4846	medium compact	106	1.8	VD	19
1244.6 + 4630	medium compact	88	2.3	VD	42
1245.3 + 4741	open	85	1.6	ED	20
1245.5 + 4909	compact	64	1.5	ED	18
1246.0 + 4427	open	56	1.1	ED	6
1247.2 + 4758	medium compact	68	1.0	ED	16
1247.2 + 5008	compact	215	2.1	ED	17
1249.0 + 4540	open	133	7.7	MD	41
1249.4 + 4636	compact	85	1.6	VD	40
1249.4 + 4654	compact	121	2.0	ED	39
1249.4 + 4812	medium compact	120	2.9	VD	15
1249.5 + 4712	compact	71	1.3	ED	38
1251.1 + 4910	compact	65	1.5	VD	14

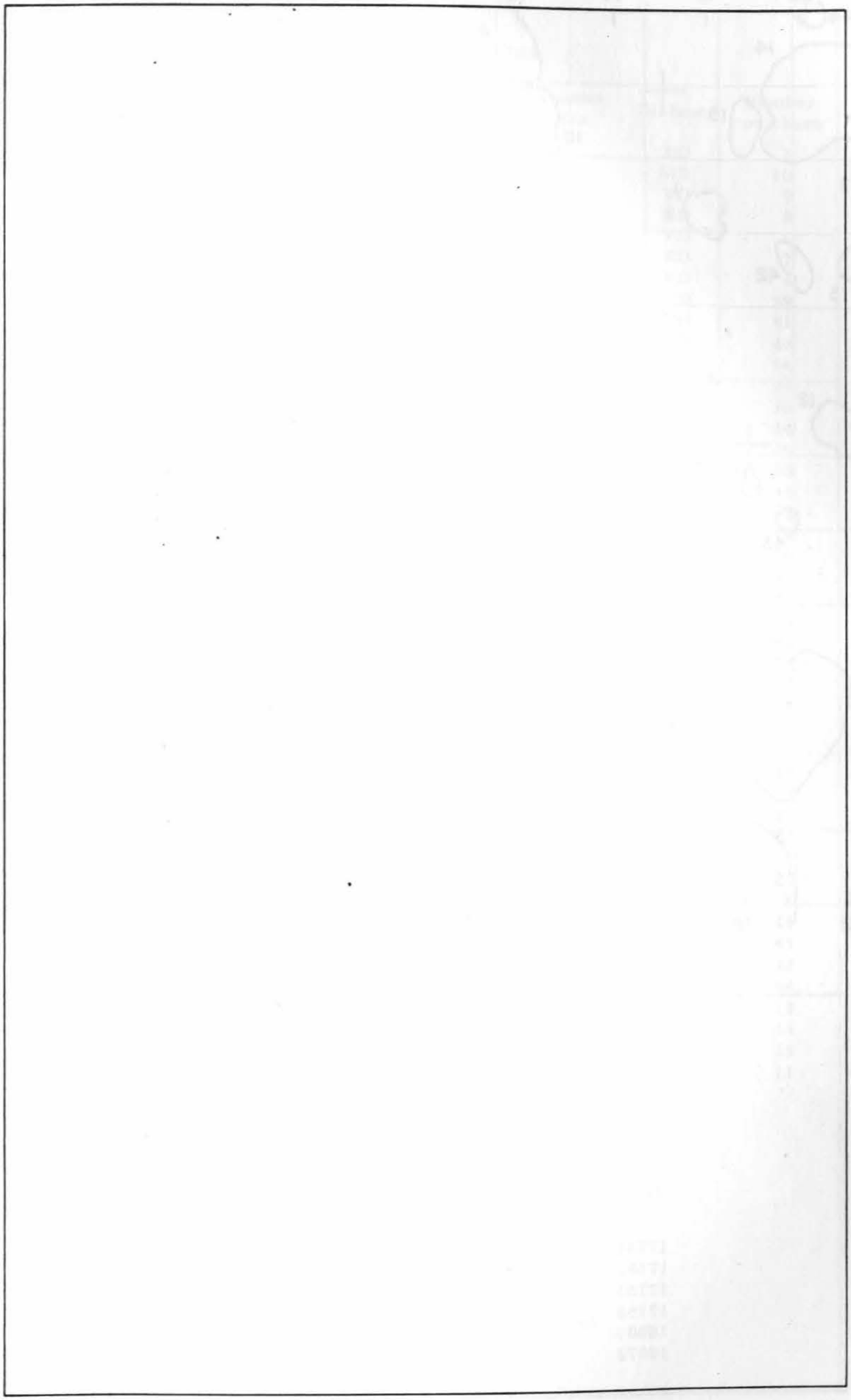
Average number of galaxies per cluster = 91.9

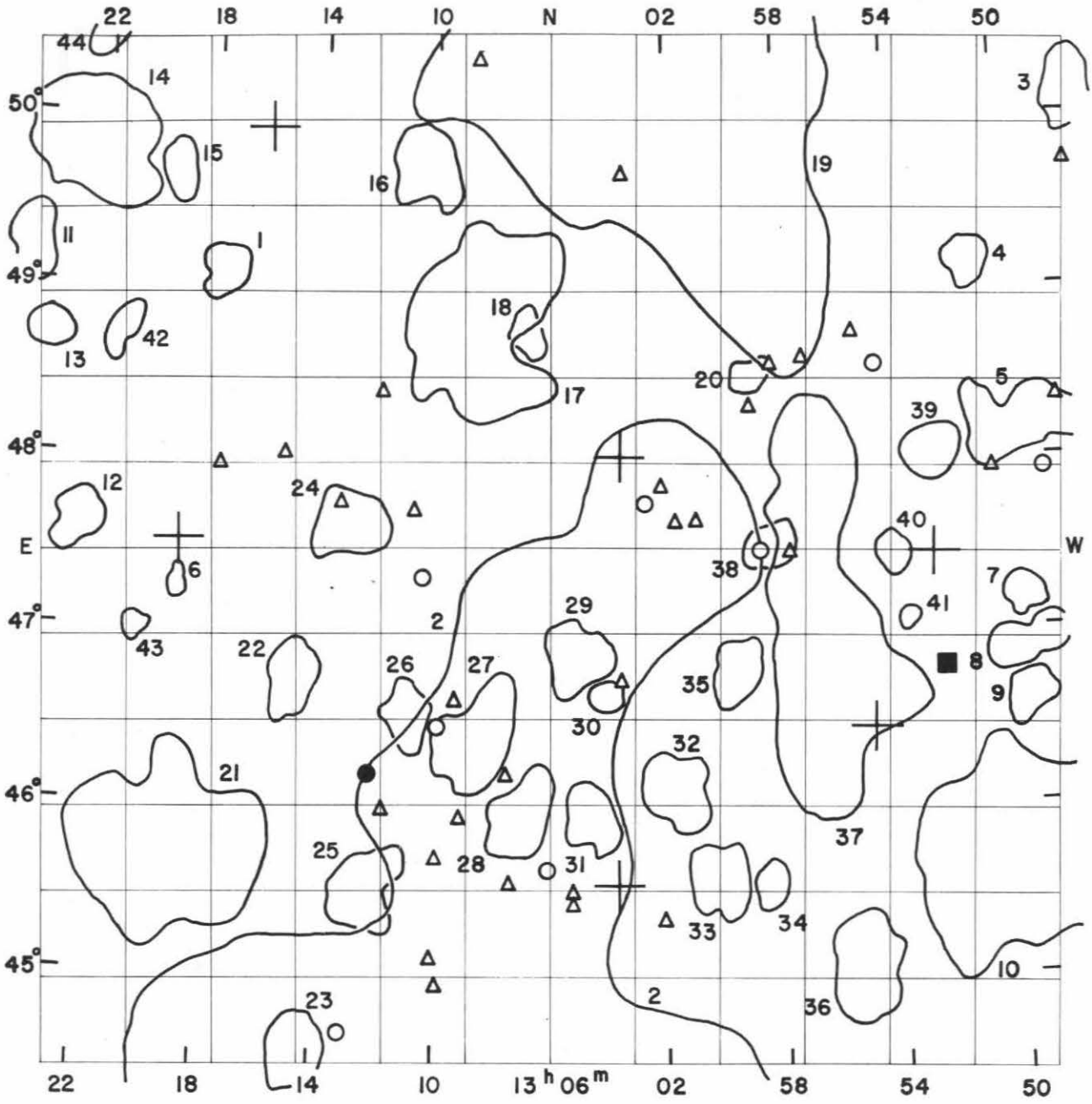
GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
12 15.4	+47 41	4248	13.9		
12 16.3	+45 04		15.4		compact
12 16.5	+47 35	4258	9.6	+ 420	m_H = 10.2 Sb
12 16.7	+49 38		14.3		
12 17.0	+50 05		13.7		
12 18.2	+46 35	4288	13.6		
12 18.8	+46 06		14.8		diffuse
12 20.0	+45 20		14.7		
12 21.0	+47 16	4346	12.3		m_H = 12.4 SBa
12 21.6	+49 03	4357	13.5		
12 22.0	+46 18		15.0		
12 22.8	+46 08	4392	14.6		
12 23.0	+47 33		15.1		
12 23.1	+45 58	4389	12.8		m_H = 12.8 S
12 23.3	+45 34		15.4		
12 23.4	+45 33		15.5		diffuse spiral
12 23.4	+50 22		14.9		
12 23.9	+48 46		15.3		compact with large plume
12 24.6	+48 33		14.7		
12 25.8	+44 43		14.8		double system, plume + streamers
12 26.0	+44 54		15.1		
12 26.4	+45 09	4460	12.5		m_H = 12.5 Sc
12 26.7	+44 55		15.6		
12 27.5	+47 48		14.9		diffuse
12 27.8	+47 17		15.6		compact
12 29.9	+47 37		15.5		compact
12 30.2	+46 03		14.6		
12 31.0	+46 54		15.7		
12 31.8	+48 00		15.7		
12 32.3	+44 40		15.2		
12 32.4	+48 01		15.3		compact
12 33.9	+48 10		15.6		
12 34.5	+45 56		15.2		
12 34.9	+49 43		15.0		
12 37.2	+47 54		14.9		
12 38.8	+48 21		15.6		
12 41.2	+50 08		15.6		
12 41.8	+45 10		15.7		
12 41.8	+45 17		15.4		disrupted spiral
12 43.6	+45 28		15.2		disrupted spiral
12 43.8	+46 59		15.5		
12 43.9	+48 56		15.7		
12 47.4	+49 43		15.3		
12 48.1	+48 20		15.7		compact
12 48.7	+47 56	4741	14.5		
12 50.5	+47 57		15.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
4248	-	-	-	-	-	-	13.07	S
4258	9.3	Sb	9.39	Sb	9.0	Sb	8.90	Sb+





FIELD No. 245

13^h06^m $+47^\circ30'$

Survey Plate No. 1350

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
17533	12 52 39.8	+ 47 28 03	6.02
17582	12 54 51.0	+ 46 26 51	6.22
17753	13 03 32.7	+ 48 02 47	7.38
17758	13 03 37.5	+ 45 32 08	5.72
18009	13 16 07.1	+ 49 56 40	5.13
18072	13 18 58.4	+ 47 31 53	7.08

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1247.2 + 5008	compact	215	2.1	ED	3
1249.0 + 4540	open	133	7.7	MD	10
1249.4 + 4636	compact	85	1.6	VD	9
1249.4 + 4654	compact	121	2.0	ED	8
1249.4 + 4812	medium compact	120	2.9	VD	5
1249.5 + 4712	compact	71	1.3	ED	7
1251.1 + 4910	compact	65	1.5	VD	4
1252.6 + 4803	medium compact	65	1.8	ED	39
1253.5 + 4704	compact	55	0.7	ED	41
1254.0 + 4728	medium compact	50	1.2	ED	40
1255.4 + 4501	compact	106	2.8	VD	36
1256.4 + 4701	open	121	7.0	MD	37
1258.3 + 4730	medium compact	69	1.6	ED	38
1258.6 + 4531	compact	65	1.2	ED	34
1259.0 + 4830	compact	90	1.1	ED	20
1259.5 + 4646	medium compact	82	1.8	ED	35
1300.2 + 4534	medium compact	88	2.1	ED	33
1301.7 + 4605	compact	125	2.2	ED	32
1301.9 + 5001	open	235	11.6	Near	19
1304.0 + 4639	compact	70	1.0	ED	30
1304.5 + 4555	compact	114	2.0	ED	31
1305.0 + 4652	compact	129	2.1	VD	29
1306.8 + 4845	compact	78	1.3	ED	18
1307.0 + 4555	medium compact	119	2.3	VD	28
1308.3 + 4456	medium compact	477	20.3	Near	2
1308.4 + 4849	medium compact	173	5.3	D	17
1308.6 + 4621	medium compact	182	2.9	D	27
1310.4 + 4943	medium compact	159	2.3	ED	16
1310.8 + 4631	compact	135	1.8	VD	26
1312.2 + 4529	compact	144	2.4	ED	25
1312.9 + 4738	medium compact	64	2.2	ED	24
1314.4 + 4432	medium compact	123	2.1	VD	23
1314.9 + 4644	compact	157	2.0	ED	22
1317.6 + 4905	open	80	1.6	ED	1
1318.8 + 4543	medium compact	152	5.8	VD	21
1318.9 + 4715	compact	55	0.7	ED	6
1319.4 + 4940	compact	80	1.5	ED	15
1320.4 + 4700	compact	55	0.8	ED	43
1321.3 + 4843	medium compact	64	1.3	ED	42
1322.2 + 5028	medium compact	72	1.2	ED	44
1322.4 + 4737	compact	97	1.7	ED	12
1322.5 + 4951	medium compact	144	4.1	VD	14
1323.8 + 4844	compact	62	1.4	ED	13
1324.6 + 4912	compact	132	2.1	ED	11

Average number of galaxies per cluster = 115.4

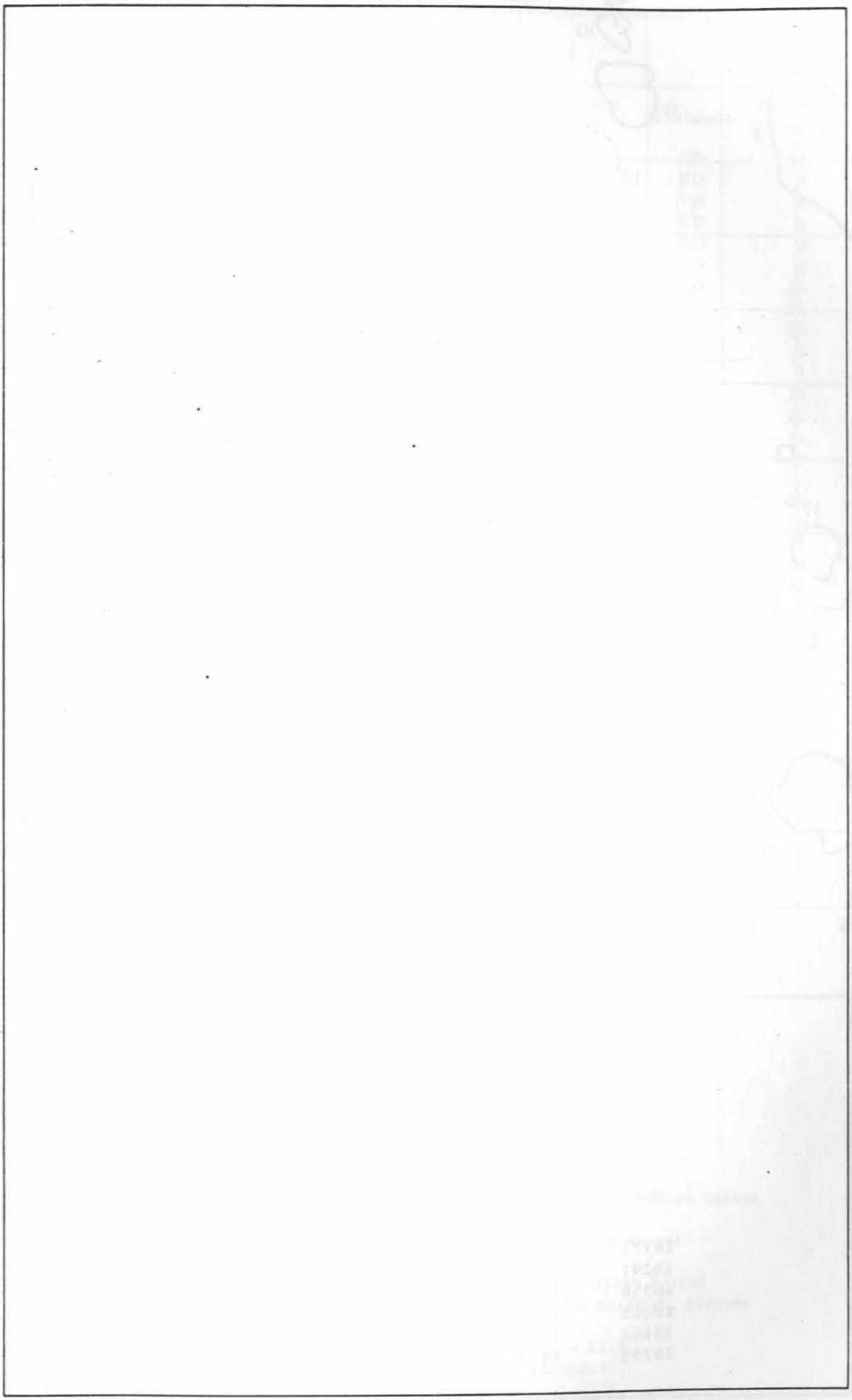
GALAXIES

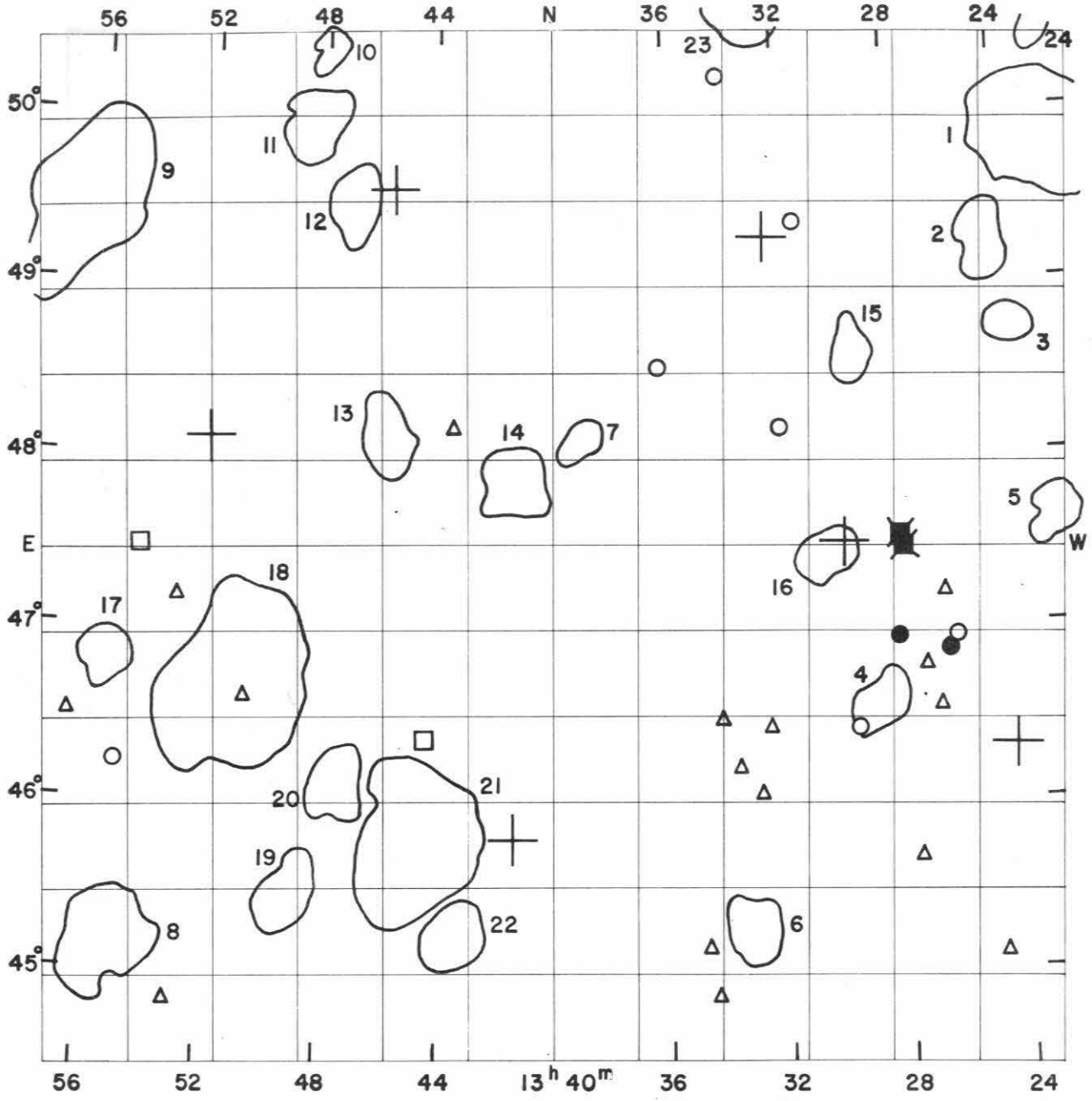
Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
12 47.4	+49 43		15.3		
12 48.1	+48 20		15.7		compact
12 48.7	+47 56	4741	14.5		
12 50.5	+47 57		15.7		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
12 52.3	+ 46 48	4800	12.0	+ 746	m_H = 12.0 Sb
12 54.6	+ 48 34	4837	14.4		
12 55.3	+ 48 45		15.6		
12 57.1	+ 48 37		15.7		
12 57.7	+ 47 28	4901	15.5		
12 58.2	+ 48 34		15.7		
12 58.7	+ 47 30	4917	15.0		
12 59.0	+ 48 19		15.1		double system, connected
13 01.0	+ 47 40		15.2		very compact
13 01.6	+ 47 39		15.3		
13 02.1	+ 45 20		15.6		
13 02.1	+ 47 52		15.4		
13 02.7	+ 47 46		15.0		
13 03.5	+ 46 44		15.7		
13 03.5	+ 49 41		15.5		double nucleus
13 05.2	+ 45 29		15.6		
13 05.3	+ 45 25		15.7		
13 06.1	+ 45 38		14.6		
13 07.4	+ 45 32		15.6		
13 07.5	+ 46 11		15.3		
13 08.6	+ 50 21	5009	15.6		
13 09.0	+ 45 56		15.4		
13 09.3	+ 46 37		15.4		
13 09.9	+ 44 57		15.5		
13 09.9	+ 45 42		15.6		compact
13 09.9	+ 46 28	5021	14.3		
13 10.0	+ 45 07		15.5		compact
13 10.4	+ 47 20	5029	14.5		
13 10.8	+ 47 44		15.5		
13 11.8	+ 45 59		15.6		
13 11.9	+ 48 25		15.7		
13 12.2	+ 46 11		14.0		
13 13.0	+ 44 40		14.9		double system, two bridges
13 13.3	+ 47 45		15.6		
13 15.3	+ 48 03		15.7		
13 17.6	+ 47 59		15.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
4800	-	-	-	-	12.2	Sb	-	-





FIELD No. 246

13^h40^m $+47^o30'$

Survey Plate No. 1593

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
18171	13 24 08.0	+ 46 17 15	5.89
18297	13 29 50.3	+ 47 29 28	6.90
18356	13 32 24.8	+ 49 16 16	4.63
18563	13 41 21.8	+ 45 46 16	6.68
18643	13 45 34.3	+ 49 33 44	1.91
18794	13 51 57.6	+ 48 07 04	7.50

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1322.2 + 5028	medium compact	72	1.2	ED	24
1322.4 + 4737	compact	97	1.7	ED	5
1322.5 + 4951	medium compact	144	4.1	VD	1
1323.8 + 4844	compact	62	1.4	ED	3
1324.6 + 4912	compact	132	2.1	ED	2
1328.7 + 4633	medium compact	97	1.7	ED	4
1329.4 + 4834	medium compact	76	1.5	VD	15
1330.5 + 4725	compact	103	1.9	VD	16
1332.8 + 5043	medium compact	110	3.1	MD	23
1333.2 + 4515	medium compact	95	1.9	ED	6
1339.0 + 4806	compact	69	1.3	ED	7
1341.3 + 4752	medium compact	136	2.2	VD	14
1343.4 + 4513	compact	113	2.1	VD	22
1344.6 + 4545	medium compact	135	4.5	MD	21
1345.7 + 4808	compact	96	2.1	VD	13
1347.0 + 4928	compact	99	2.0	VD	12
1347.4 + 4605	medium compact	80	2.0	VD	20
1348.0 + 5024	compact	75	1.2	ED	10
1348.6 + 4957	medium compact	131	2.2	ED	11
1349.0 + 4525	medium compact	93	2.1	ED	19
1350.9 + 4638	medium compact	162	5.4	MD	18
1355.0 + 4510	medium compact	151	3.2	D	8
1355.3 + 4649	medium compact	103	1.7	ED	17
1356.7 + 4930	medium compact	233	4.4	MD	9

Average number of galaxies per cluster = 111.0

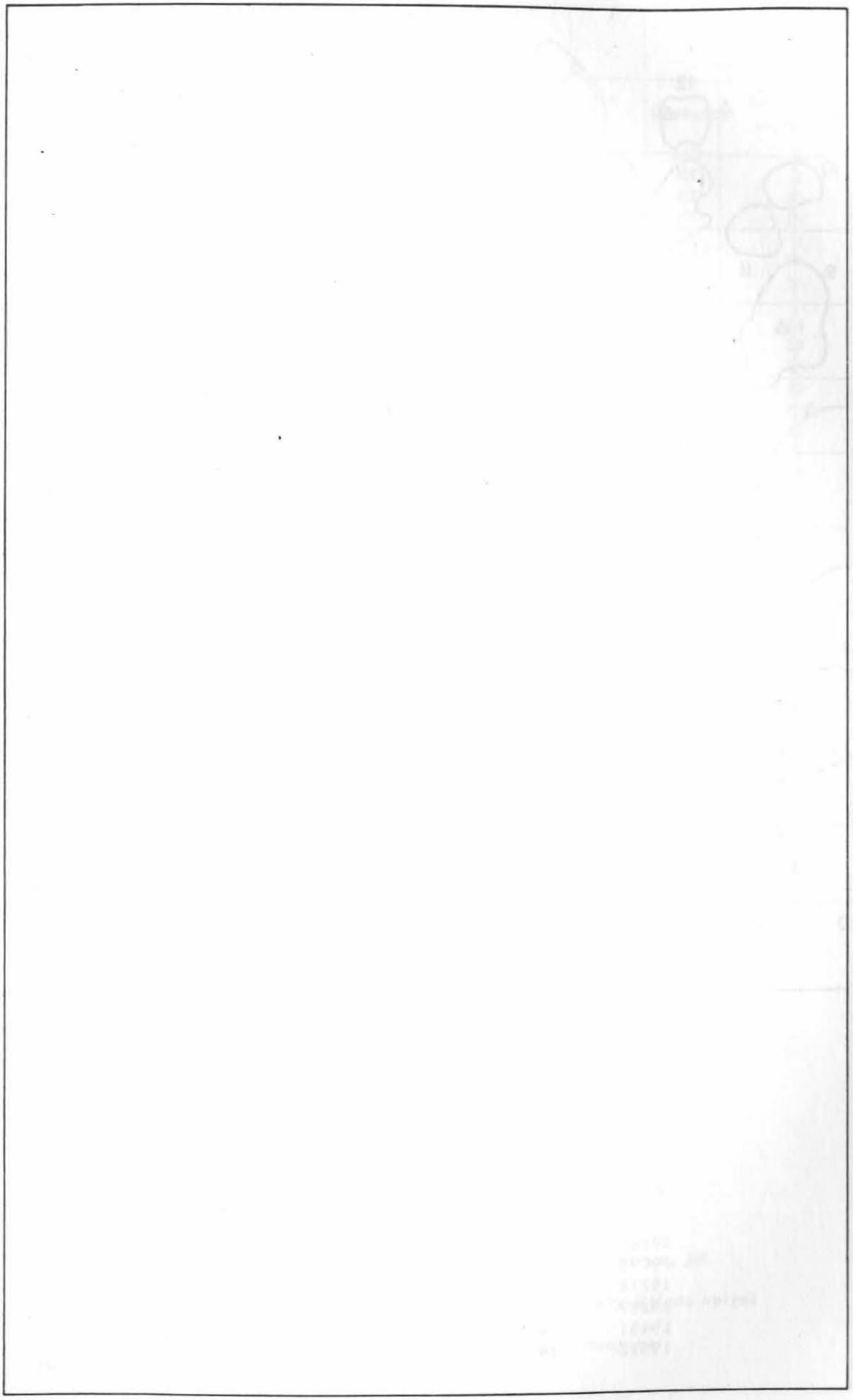
GALAXIES

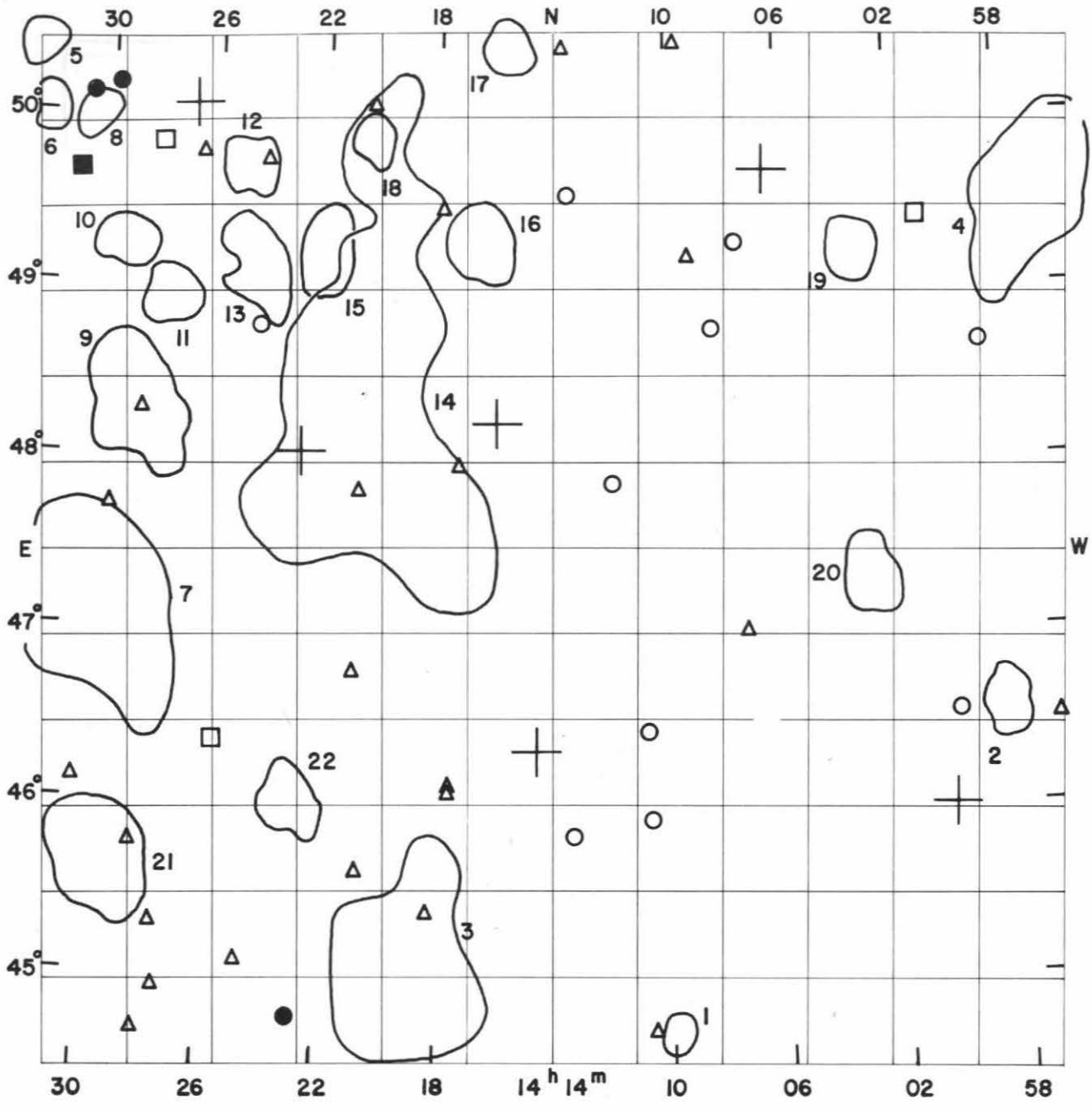
Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
13 24.8	+ 45 05		15.6		very compact
13 26.0	+ 46 56	5169	14.7		
13 26.3	+ 46 51	5173	13.5	+ 2404	
13 26.5	+ 47 12	4263*	15.4		
13 26.7	+ 46 31		15.1		
13 27.1	+ 46 46		15.7		
13 27.6	+ 45 39		15.2		
13 27.8	+ 47 27	5194	8.8	+ 438	m_H= 10.1 Sc } M 51
13 27.9	+ 47 31	5195	10.6	+ 542	m_H= 11.1 I } M 51
13 28.1	+ 46 56	5198	13.2	+ 2522	m_H= 12.9 E
13 29.5	+ 46 25		15.0		
13 31.3	+ 49 21		14.9		
13 32.0	+ 48 10	5229	14.6		
13 32.5	+ 46 25		15.6		compact
13 33.0	+ 46 02		15.4		
13 33.7	+ 46 11		15.3		extremely diffuse spiral
13 34.0	+ 50 13	902*	14.7		
13 34.2	+ 46 28		15.2		disrupted spiral
13 34.5	+ 44 51		15.3		
13 34.8	+ 45 09		15.5		very diffuse spiral
13 36.2	+ 48 32	5256	14.1		double nucleus, plumes
13 43.5	+ 48 11		15.1		
13 44.4	+ 46 22	5301	13.0	+ 1702	m_H = 13.0
13 50.6	+ 46 36		15.7		compact

Position α 1950 h m	Position δ o '	NGC IC*	m_p	v_s km/sec	Remarks
13 52.9	+47 12		15.6		extremely compact
13 53.0	+44 50		15.5		
13 54.3	+47 29	5377	12.5	+1830	m_H = 12.8 Sa
13 55.0	+46 13		14.3		
13 56.6	+46 30		15.7		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
5173	-	-	-	-	13.8	E0	-	-
5194	-	-	8.89	Sc	8.6	Sc	8.88	Sc-
5195	-	-	10.71	Irr.	10.7	Ep	10.47	Ir. II
5198	-	-	-	-	13.0	E1	-	-
5301	-	-	-	-	-	Sc	-	-
5377	-	-	12.05	Sa	12.0	Sa	-	-





FIELD No. 247

14^h14^m $+47^o30'$

Survey Plate No. 120

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
18969	14 00 13.0	+ 45 59 41	6.46
19095	14 06 25.2	+ 49 41 37	5.44
19273	14 14 29.0	+ 46 19 02	4.26
19297	14 15 57.4	+ 48 13 57	6.25
19451	14 22 48.9	+ 48 03 22	7.35
19532	14 26 53.4	+ 50 04 04	5.61

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1356.7 + 4930	medium compact	233	4.4	MD	4
1358.3 + 4633	medium compact	93	1.8	ED	2
1402.8 + 4719	compact	145	2.1	ED	20
1403.1 + 4912	compact	111	1.8	ED	19
1409.6 + 4440	compact	54	1.1	ED	1
1415.5 + 5024	medium compact	76	1.6	ED	17
1416.4 + 4915	compact	117	2.2	ED	16
1418.8 + 4502	medium compact	131	5.5	MD	3
1420.2 + 4827	medium compact	290	9.1	Near	14
1420.2 + 4952	medium compact	90	1.4	VD	18
1422.0 + 4911	medium compact	125	2.2	VD	15
1422.9 + 4600	medium compact	126	2.1	VD	22
1424.4 + 4906	medium compact	161	2.5	D	13
1424.9 + 4941	medium compact	124	1.9	ED	12
1427.5 + 4856	medium compact	105	1.8	ED	11
1428.6 + 4817	medium compact	62	3.5	VD	9
1429.1 + 4915	medium compact	95	1.8	ED	10
1429.4 + 4540	compact	220	3.6	VD	21
1429.5 + 4705	medium compact	171	5.6	D	7
1430.6 + 4959	compact	82	1.3	ED	8
1432.1 + 5000	medium compact	57	1.3	ED	6
1432.7 + 5023	medium compact	78	1.4	VD	5

Average number of galaxies per cluster = 124.8

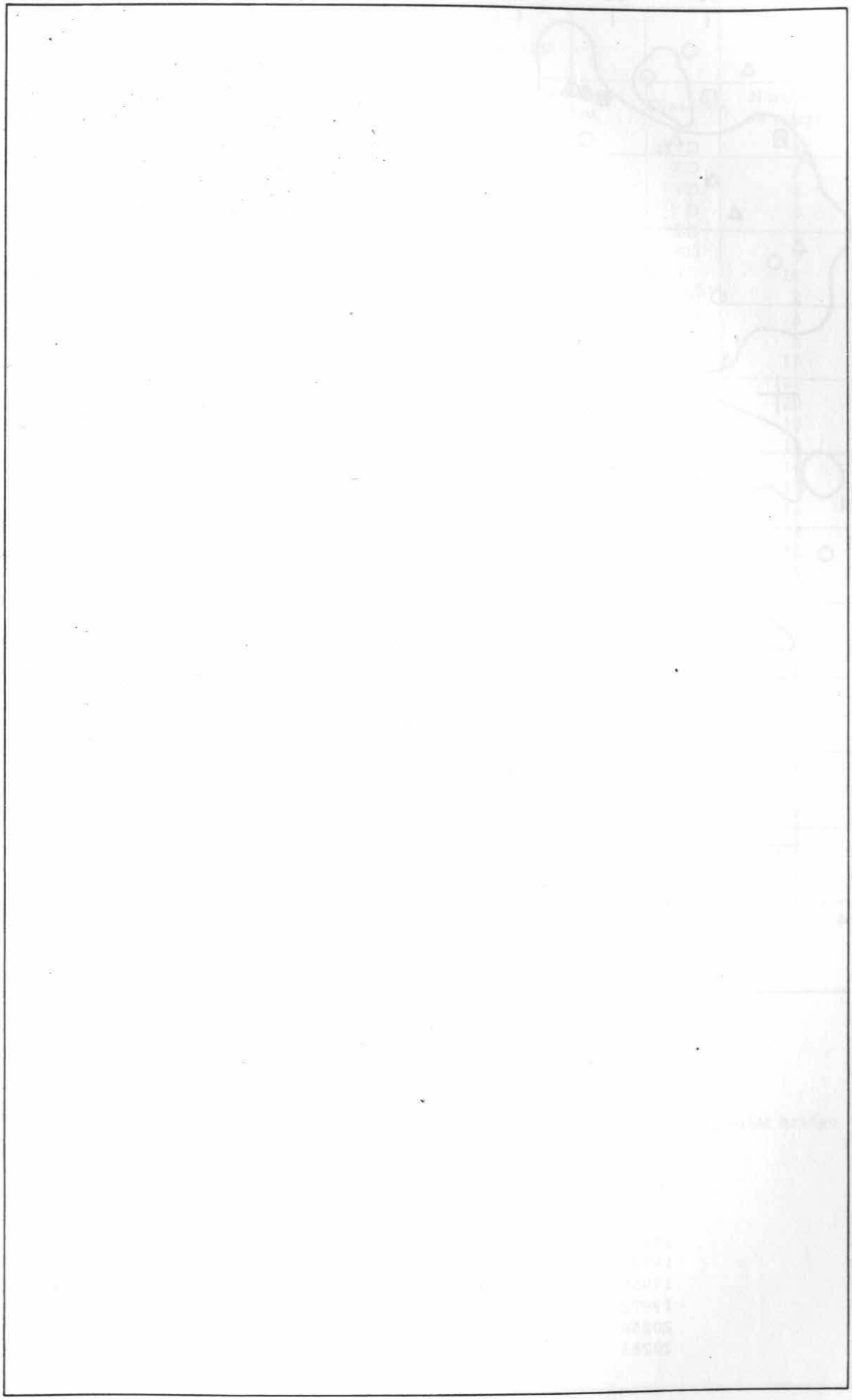
GALAXIES

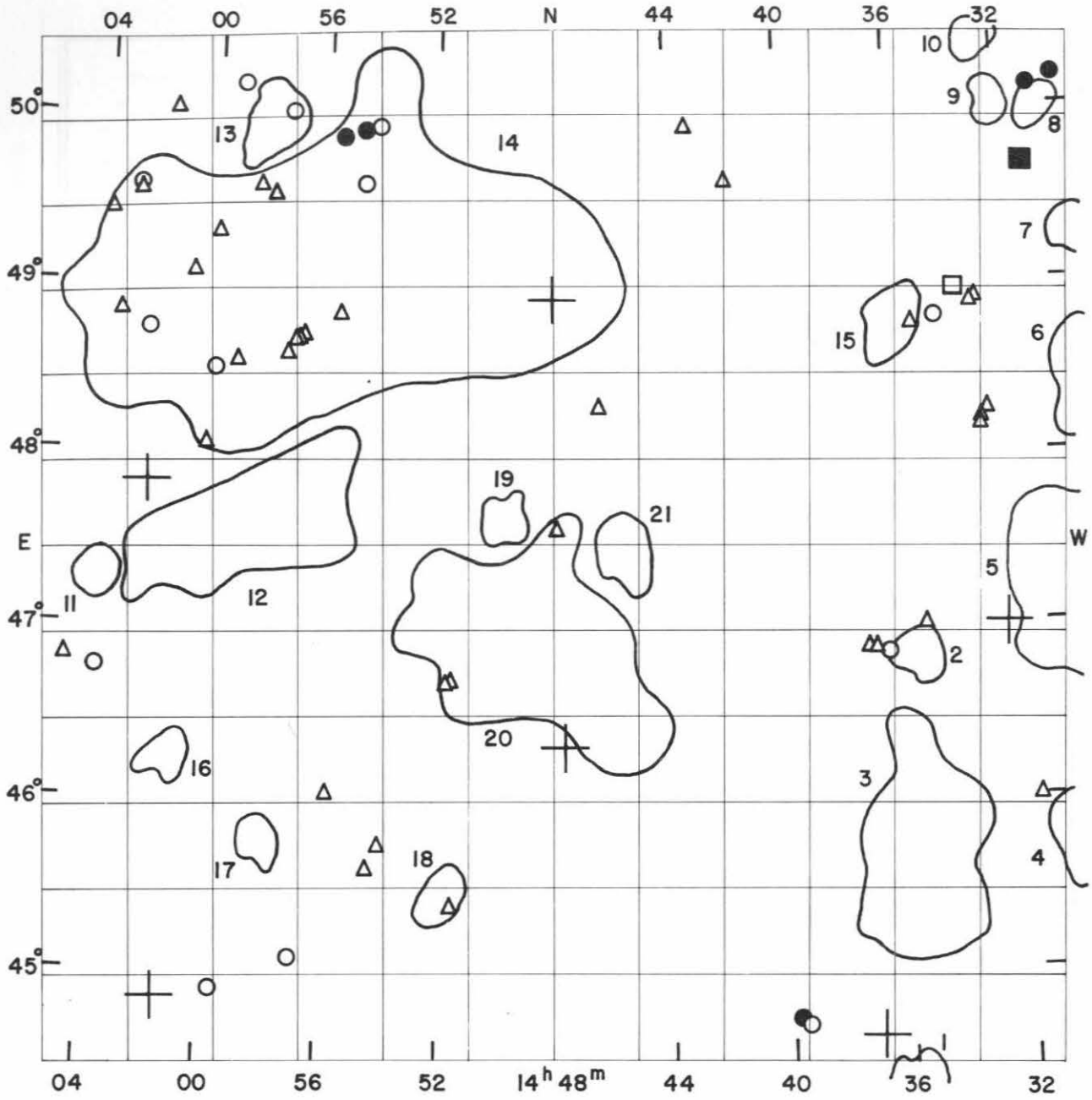
Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
13 56.6	+ 46 30		15.7		
13 58.8	+ 48 41	5425	14.3		
14 00.0	+ 46 33	5439	14.6		
14 01.0	+ 49 25	5448	12.7	+ 1970	m_H = 12.5 S
14 07.2	+ 47 00		15.5		
14 07.5	+ 49 16		14.4		
14 08.4	+ 48 47	5500	14.5		
14 09.2	+ 49 12		15.7		diffuse
14 09.6	+ 50 27		15.1		
14 10.5	+ 44 42		15.6		
14 10.6	+ 45 55		14.1		double system, contact
14 10.7	+ 46 27		15.0		
14 11.9	+ 47 53		15.0		
14 13.2	+ 45 50		14.8		
14 13.5	+ 49 33		14.9		compact
14 13.7	+ 50 25		15.6		compact
14 17.2	+ 47 59		15.6		
14 17.5	+ 46 05		15.4		
14 17.5	+ 46 06		15.6		compact
14 17.9	+ 49 28		15.4		
14 18.2	+ 45 23		15,7		double nucleus, jet
14 20.4	+ 50 04		15.6		
14 20.6	+ 45 37		15.7		extremely diffuse spiral
14 20.7	+ 47 50		15.7		
14 20.9	+ 46 46		15.5		very compact
14 22.8	+ 44 45		13.9		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
14 24.3	+49 45		15.7		
14 24.4	+48 47	5622	14.2		
14 24.6	+45 05		15.7		
14 25.6	+46 22	5633	12.9	+ 2353	m_H = 12.8 Sb
14 26.6	+49 46		15.6		
14 27.4	+44 55		15.2		
14 27.5	+45 18		15.1		
14 28.0	+44 40		15.7		disrupted spiral
14 28.0	+49 50	5660	12.2		m_H = 12.3 Sc
14 28.3	+45 46		15.2		
14 28.5	+48 17		15.7		compact
14 29.5	+47 43		15.5		
14 29.8	+50 10	5673	14.0		
14 30.4	+46 08		15.3		
14 30.7	+50 07	1029*	13.7		
14 31.0	+49 40	5676	11.7	+ 2244	m_H = 11.9 Sc

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
5448	-	-	-	-	12.2	Sa	-	-
5633	-	-	13.06	Sb	12.9	Sb	-	-
5676	-	-	11.85	Sc	11.7	Sc	-	-





FIELD No. 248

14^h48^m $+47^o30'$

Survey Plate No. 1368

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
19654	14 32 15.7	+ 47 00 17	6.57
19747	14 36 58.5	+ 44 37 10	5.39
19959	14 47 31.7	+ 46 19 25	5.76
19972	14 47 59.2	+ 48 55 31	6.1
20258	15 01 20.5	+ 44 50 20	6.43
20281	15 02 08.3	+ 47 50 53	4.86

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1428.6 + 4817	medium compact	62	3.5	VD	6
1429.1 + 4915	medium compact	95	1.8	ED	7
1429.4 + 4540	compact	220	3.6	VD	4
1429.5 + 4705	medium compact	171	5.6	D	5
1430.6 + 4959	compact	82	1.3	ED	8
1432.1 + 5000	medium compact	57	1.3	ED	9
1432.7 + 5023	medium compact	78	1.4	VD	10
1435.4 + 4649	compact	76	1.6	ED	2
1435.5 + 4538	medium compact	122	5.5	MD	3
1435.9 + 4417	medium compact	78	2.0	ED	1
1435.9 + 4845	compact	95	2.1	VD	15
1445.5 + 4726	compact	87	2.1	VD	21
1448.8 + 4654	medium compact	143	7.0	Near	20
1449.6 + 4738	compact	67	1.5	ED	19
1451.7 + 4526	medium compact	113	1.6	ED	18
1456.2 + 4901	open	209	12.5	Near	14
1458.0 + 4544	compact	70	1.4	ED	17
1458.2 + 4956	compact	163	2.2	VD	13
1458.6 + 4735	medium compact	263	5.3	MD	12
1501.1 + 4613	medium compact	81	1.5	ED	16
1503.8 + 4716	compact	73	1.5	ED	11

Average number of galaxies per cluster = 114.5

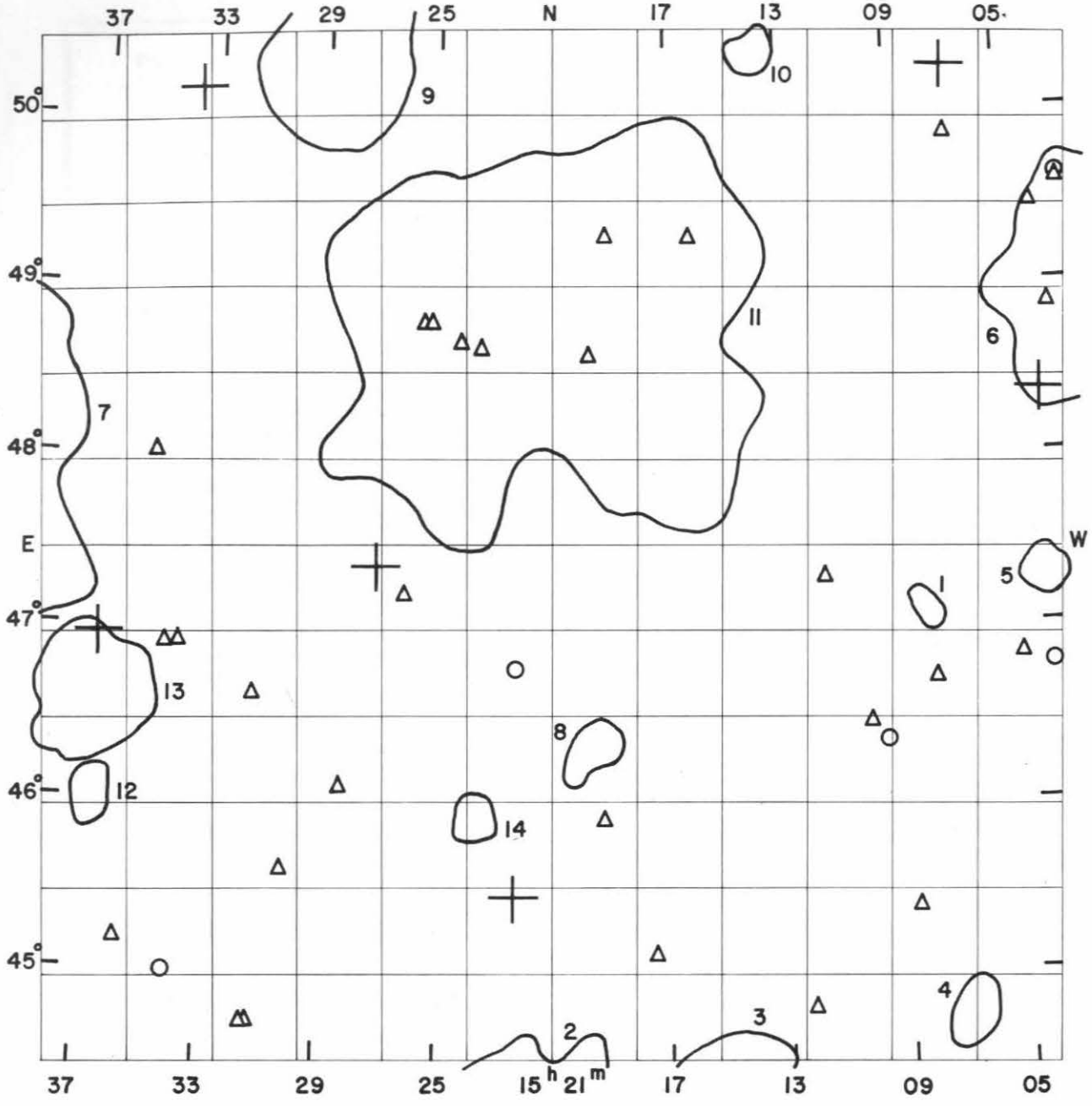
GALAXIES

Position α 1950 h m	Position δ 1950 ° ′	NGC IC*	m_p	V_s km/sec	Remarks
14 29.8	+ 50 10	5673	14.0		
14 30.7	+ 50 07	1029*	13.7		
14 31.0	+ 49 40	5676	11.7	+ 2244	m_H = 11.9 Sc
14 31.4	+ 46 00		15.7		compact
14 32.6	+ 48 15	1031*	15.4		
14 32.8	+ 48 11	1032*	15.6		
14 32.9	+ 48 09	1033*	15.3		
14 33.0	+ 48 53	5682	15.1		
14 33.1	+ 48 52	5683	15.5		
14 33.7	+ 48 57	5689	12.7	+ 2205	m_H = 12.6 SBa
14 34.4	+ 48 47	5693	14.5		
14 35.1	+ 47 00		15.7		
14 35.3	+ 48 45	5700	15.2		
14 36.4	+ 46 51	5714	14.2		
14 36.8	+ 46 53	5717	15.4		
14 37.1	+ 46 53	5721+5723	15.3		double system, very faint bridge
14 39.4	+ 44 42		14.8		
14 39.7	+ 44 44		13.9		
14 41.8	+ 49 36		15.5		
14 43.2	+ 49 55		15.4		
14 46.4	+ 48 17		15.3		
14 47.9	+ 47 35	5767	15.1		
14 51.4	+ 46 41		15.7		
14 51.5	+ 45 23		15.6		
14 51.6	+ 46 41		15.6		
14 53.9	+ 45 45		15.5		
14 54.1	+ 49 56	5794	14.5		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
14 54.2	+45 37		15.2		
14 54.6	+49 36		14.7		
14 54.7	+49 54	5797	13.6		
14 55.4	+48 50		15.6		
14 55.4	+49 52	5804	14.0		
14 55.7	+46 03		15.1		
14 56.7	+48 41		15.5		
14 56.8	+48 40		15.7		
14 56.9	+45 05		14.6		
14 57.0	+48 40		15.6		compact
14 57.2	+48 36		15.4		
14 57.2	+50 01	5818	15.0		
14 57.9	+49 31		15.2		
14 58.3	+49 35		15.7		
14 59.0	+48 33		15.5		
14 59.0	+50 11	5828	14.3		double system
14 59.4	+44 54		14.3		
14 59.8	+48 31		14.9		
14 59.8	+49 18		15.3		
15 00.1	+48 04	5830	15.2		
15 00.7	+49 04	5835	15.7		
15 01.5	+50 02		15.6		
15 02.2	+48 44		15.0		
15 02.8	+49 34		15.2		
15 02.8	+49 36		14.8		
15 03.3	+48 51		15.7		
15 03.7	+46 46		15.0		
15 03.8	+49 27		15.3		
15 04.8	+46 50		15.6		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
5676	-	-	11.85	Sc	11.7	Sc	-	-
5689	-	-	12.84	S0	12.9	S0	-	-



FIELD No. 249

15^h21^m $+47^\circ30'$

Survey Plate No. 706

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ′ ″	
20308	15 03 46.4	+ 48 20 36	5.59
20380	15 06 44.2	+ 50 14 43	6.27
20720	15 22 23.8	+ 45 26 48	6.24
20825	15 27 07.8	+ 47 22 22	5.96
20970	15 33 42.4	+ 50 09 39	7.09
21044	15 36 40.0	+ 46 57 41	5.78

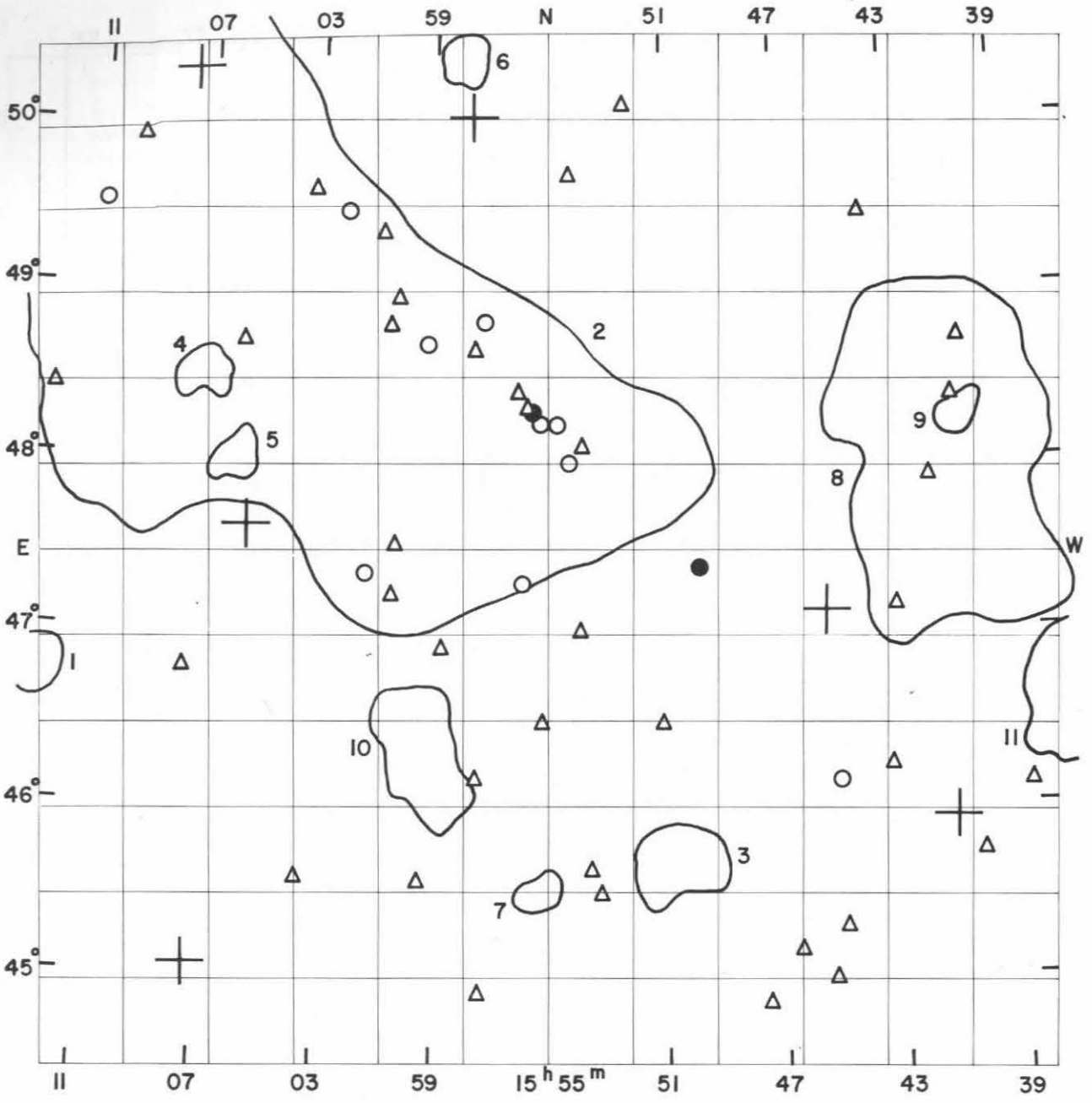
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1456.2 + 4901	open	209	12.5	Near	6
1503.8 + 4716	compact	73	1.5	ED	5
1507.0 + 4443	medium compact	100	1.8	VD	4
1508.0 + 4706	compact	64	1.1	ED	1
1513.8 + 5020	compact	86	1.4	ED	10
1514.8 + 4408	open	109	4.2	D	3
1519.5 + 4618	medium compact	116	1.6	ED	8
1521.0 + 4844	open	230	13.3	Near	11
1521.8 + 4410	open	144	4.5	D	2
1523.5 + 4555	medium compact	87	1.4	ED	14
1528.7 + 5019	open	126	5.4	MD	9
1536.5 + 4636	medium compact	128	4.2	MD	13
1536.6 + 4600	medium compact	98	1.5	VD	12
1540.9 + 4758	open	152	9.0	Near	7

Average number of galaxies per cluster = 123.0

GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
15 02.8	+49 34		15.2		
15 02.8	+49 36		14.8		
15 03.3	+48 51		15.7		
15 03.7	+46 46		15.0		
15 03.8	+49 27		15.3		
15 04.8	+46 50		15.6		
15 06.8	+49 52		15.4		
15 07.9	+46 42		15.4		compact
15 08.6	+45 22		15.6		diffuse spiral
15 09.5	+46 20		14.1		
15 10.1	+46 27		15.4		
15 11.6	+47 18		15.7		
15 12.2	+44 47		15.5		
15 16.1	+49 16		15.7		very diffuse
15 17.5	+45 06		15.7		very diffuse spiral
15 17.7	+46 04	5918	14.0		
15 19.1	+49 17		15.4		
15 19.2	+45 55		15.1		double system
15 19.8	+48 35		15.7		
15 22.2	+46 47		14.8		
15 23.4	+48 38		15.5		
15 24.1	+48 40		15.7		
15 25.2	+48 47	5932	15.2		
15 25.4	+48 47	5933	15.7		extremely faint ejecta
15 26.1	+47 12		15.6		compact
15 28.3	+46 05		15.3		
15 30.2	+45 36		15.5		
15 31.2	+44 42		15.5		double system
15 31.3	+46 37		15.2		
15 31.4	+44 42		15.3		
15 33.8	+46 55		15.7		compact
15 34.0	+45 00		14.4		
15 34.3	+46 54		15.6		
15 34.8	+48 00		15.2		
15 35.7	+45 11		15.6		



FIELD No. 250

15^h55^m $+47^o30'$

Survey Plate No. 1404

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
21141	15 41 01.1	+ 45 55 07	6.90
21232	15 45 20.5	+ 47 08 23	7.17
21499	15 57 39.0	+ 50 01 21	5.90
21684	16 05 30.1	+ 47 38 14	6.58
21736	16 07 11.5	+ 45 03 54	4.26
21747	16 07 46.6	+ 50 18 38	6.96

CLUSTERS OF GALAXIES

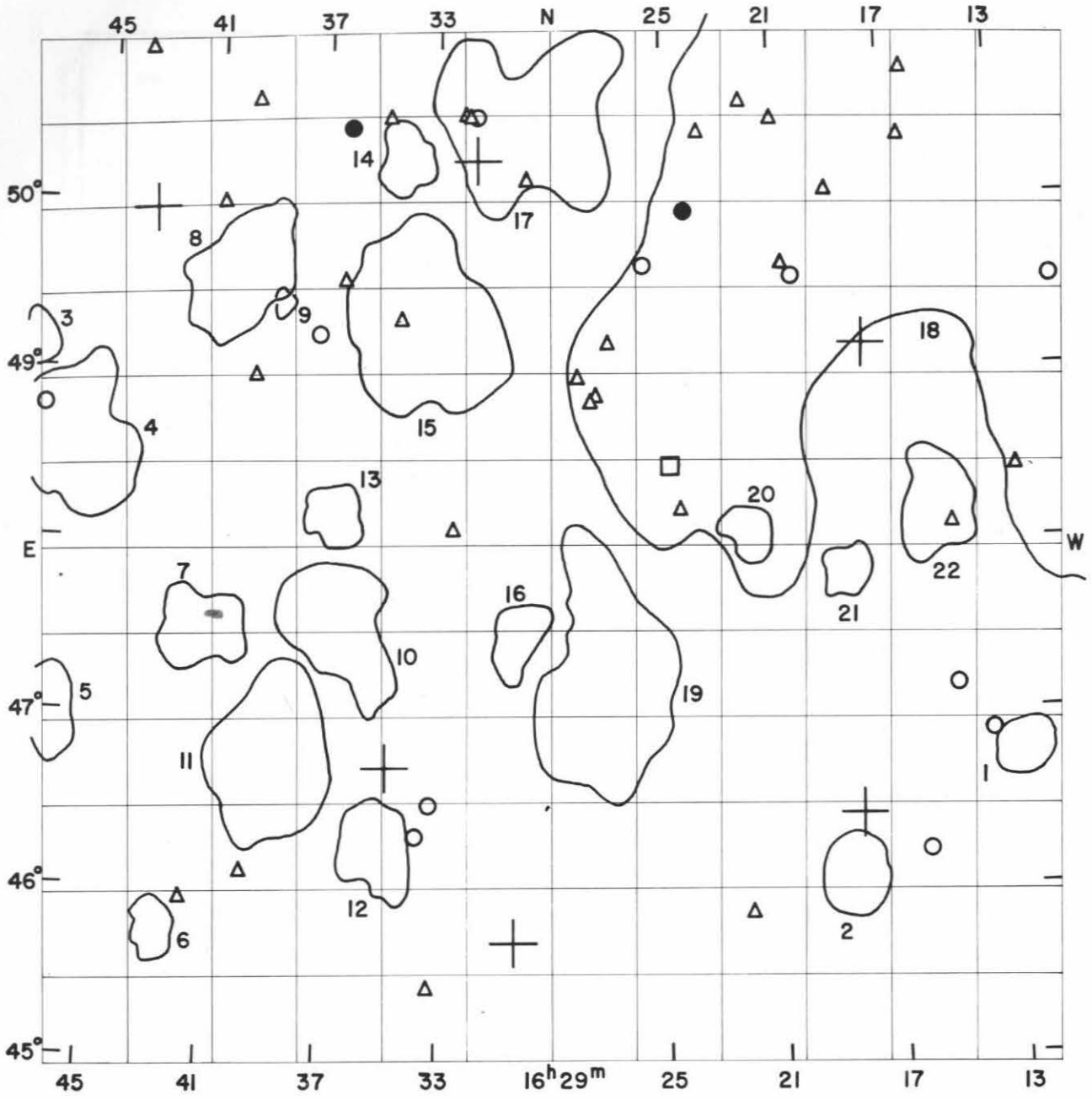
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1536.5 + 4636	medium compact	128	4.2	MD	11
1540.6 + 4815	medium compact	83	1.2	VD	9
1540.9 + 4758	open	152	9.0	Near	8
1550.6 + 4540	medium compact	81	2.8	D	3
1555.3 + 4529	compact	74	1.2	ED	7
1558.0 + 5021	compact	91	1.6	ED	6
1559.3 + 4615	medium compact	115	3.6	D	10
1606.0 + 4801	compact	111	1.5	ED	5
1607.1 + 4830	medium compact	108	1.6	ED	4
1610.3 + 4955	open	675	26.7	Near	2
1612.7 + 4645	medium compact	108	1.8	VD	1

Average number of galaxies per cluster = 156.9

GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
15 38.5	+ 46 07		15.6		
15 40.2	+ 45 43		15.5		
15 40.5	+ 48 43		15.6		
15 40.8	+ 48 22		15.7		extremely faint jet
15 41.7	+ 47 54		15.4		
15 42.9	+ 47 10		15.3		
15 43.1	+ 46 14		15.4		
15 43.9	+ 49 27		15.7		
15 44.8	+ 45 17		15.6		
15 44.9	+ 46 09		15.0		
15 45.2	+ 44 59		15.7		
15 46.4	+ 45 09		15.7		double system
15 47.6	+ 44 51		15.5		
15 49.7	+ 47 23		13.6		
15 51.0	+ 46 29		15.7		double system, connected
15 52.3	+ 50 05		15.4		
15 53.1	+ 45 29		15.2		double system
15 53.5	+ 45 38		15.1		
15 53.8	+ 48 06		15.6		
15 53.9	+ 47 01		15.6		
15 54.2	+ 48 00		14.1		
15 54.3	+ 49 40		15.3		
15 54.6	+ 48 14		14.9		
15 55.2	+ 46 29		15.3		double system in halo
15 55.3	+ 48 14	1152*	14.4		
15 55.6	+ 48 18	1153*	13.6		
15 55.7	+ 48 19		15.1		
15 55.8	+ 47 18		14.9		
15 56.0	+ 48 24		15.6		
15 57.2	+ 48 49		14.3		
15 57.4	+ 44 54		15.5		
15 57.5	+ 46 10		15.6		compact
15 57.5	+ 48 40		15.5		
15 58.6	+ 46 55		15.4		
15 59.2	+ 48 42		15.0		
15 59.4	+ 45 33		15.5		
16 00.3	+ 47 31		15.5		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
16 00.3	+48 58		15.7		
16 00.5	+47 14		15.2		double nebula
16 00.6	+48 48		15.3		
16 00.8	+49 20		15.6		diffuse
16 01.3	+47 21		14.6		double system
16 02.1	+49 28		14.3		
16 03.3	+49 35		15.4		double system
16 03.5	+45 35		15.4		
16 05.8	+48 42		15.7		extremely faint filament
16 07.6	+46 47		15.7		
16 09.6	+49 55		15.2		
16 10.9	+49 31		14.8		
16 12.4	+48 25		15.5		



FIELD No. 251

16^h29^m $+48^\circ00'$

Survey Plate No. 1375

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
21974	16 17 47.2	+ 49 09 25	6.19
21987	16 18 14.1	+ 46 25 53	3.91
22251	16 30 16.8	+ 45 42 11	5.55
22279	16 31 37.5	+ 50 14 46	6.97
22344	16 34 43.5	+ 46 42 49	5.95
22555	16 43 15.8	+ 49 57 16	7.32

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1610.3 + 4955	open	675	26.7	Near	18
1612.7 + 4645	medium compact	108	1.8	VD	1
1615.3 + 4811	medium compact	90	2.9	VD	22
1618.6 + 4603	medium compact	120	2.3	ED	2
1618.6 + 4718	compact	68	1.5	VD	21
1622.1 + 4802	medium compact	105	1.6	VD	20
1627.0 + 4708	open	157	5.5	D	19
1629.7 + 5027	medium compact	147	5.5	Near	17
1630.1 + 4728	medium compact	94	1.9	ED	16
1633.5 + 4916	medium compact	150	5.5	D	15
1634.1 + 5014	medium compact	183	2.0	ED	14
1635.0 + 4613	compact	196	2.7	ED	12
1636.4 + 4729	medium compact	156	3.8	VD	10
1636.6 + 4809	compact	128	1.9	ED	13
1638.5 + 4922	compact	43	0.8	ED	9
1638.7 + 4643	compact	330	4.6	ED	11
1640.1 + 4932	medium compact	74	3.7	VD	8
1641.1 + 4729	compact	220	2.8	ED	7
1642.5 + 4544	medium compact	117	1.6	ED	6
1645.8 + 4835	medium compact	127	4.3	D	4
1646.4 + 4659	medium compact	93	2.4	D	5
1647.4 + 4908	medium compact	58	1.5	ED	3

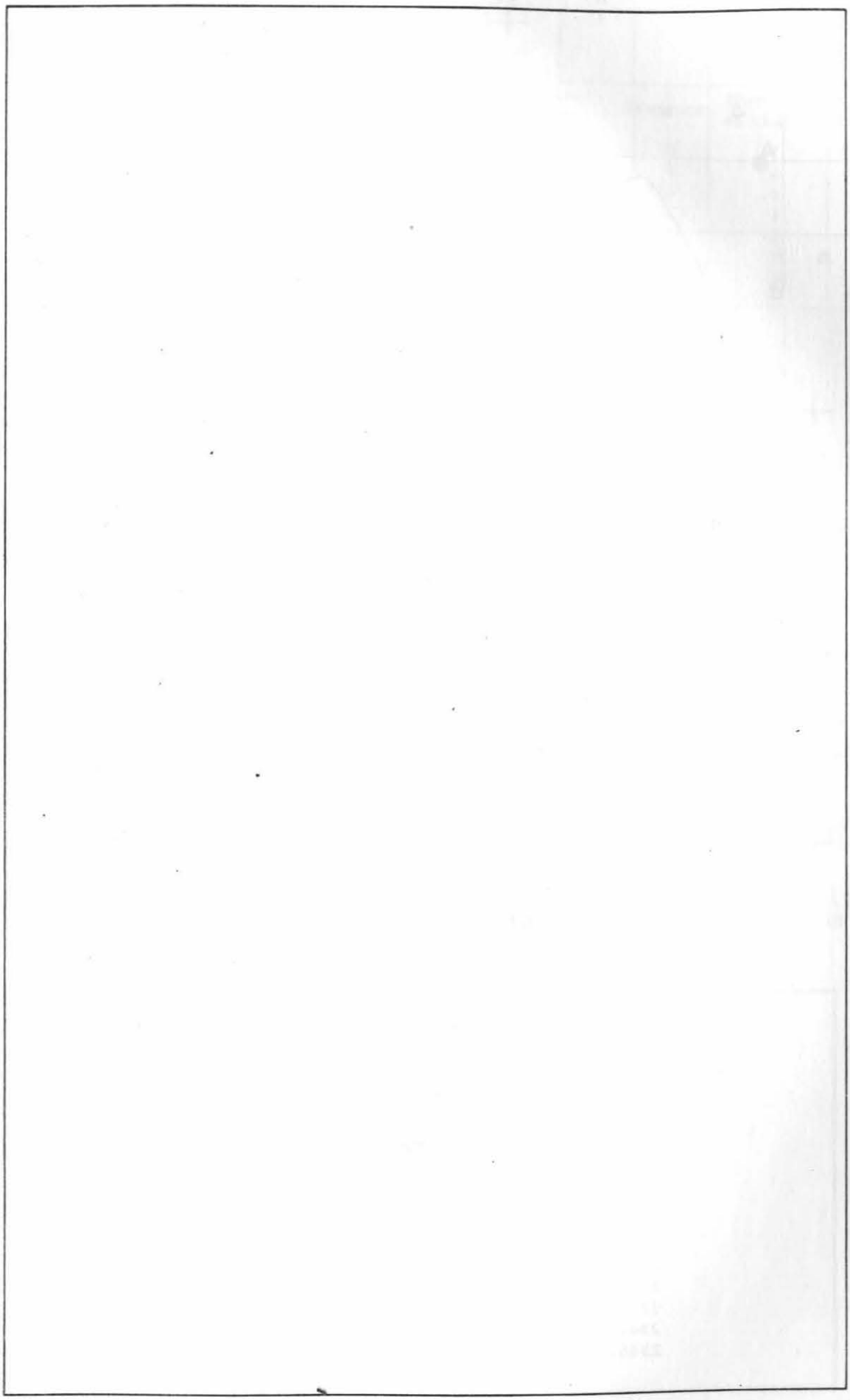
Average number of galaxies per cluster = 156.3

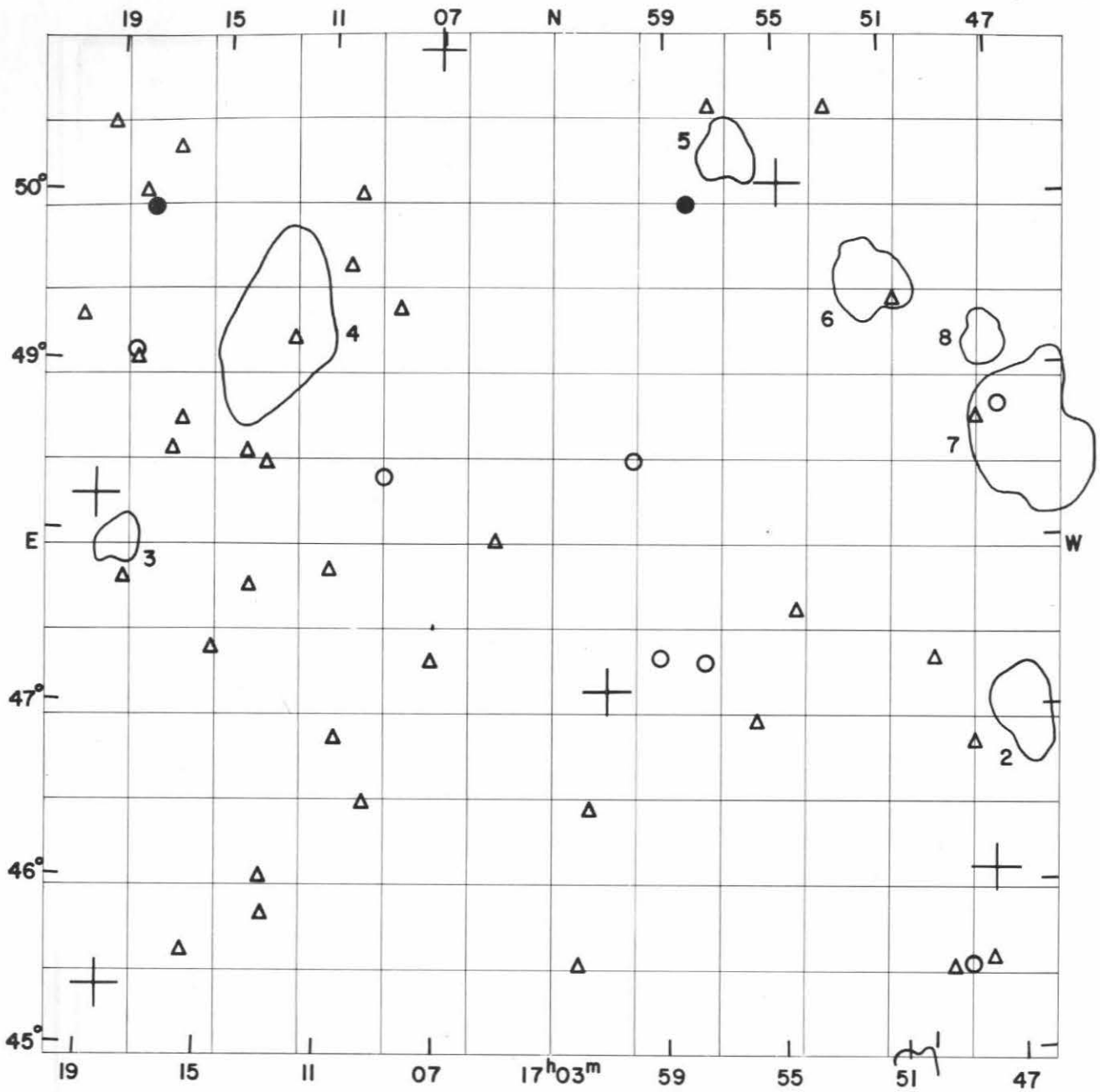
GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
16 10.9	+ 49 31		14.8		
16 12.4	+ 48 25		15.5		
16 13.6	+ 46 54		15.0		
16 14.8	+ 47 10		14.9		disrupted spiral
16 14.8	+ 48 06		15.6		
16 16.0	+ 46 13		14.5		double system
16 16.0	+ 50 45		15.6		
16 16.2	+ 50 21		15.5		
16 19.0	+ 50 03		15.4		compact
16 20.2	+ 49 33		15.0		
16 20.6	+ 49 37		15.5		diffuse
16 21.0	+ 50 29		15.7		
16 22.0	+ 50 35		15.6		compact
16 22.1	+ 45 51		15.3		
16 23.7	+ 50 25		15.6		
16 24.2	+ 49 57	6154	14.0		
16 24.4	+ 48 12		15.2		
16 24.7	+ 48 28	6155	13.0		
16 25.6	+ 49 38		14.7		
16 27.0	+ 49 10		15.7		
16 27.3	+ 48 52		15.6		
16 27.5	+ 48 50		15.5		
16 28.0	+ 48 58		15.7		double system, plume
16 29.8	+ 50 08		15.5		
16 31.6	+ 50 30		14.9		double system
16 31.9	+ 50 30		15.2		compact

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
16 32.0	+ 50 31		15.4		double system
16 32.4	+ 48 05		15.6		eccentric nucleus
16 33.2	+ 45 25		15.3		diffuse
16 33.2	+ 46 30	1221*	14.7		
16 33.6	+ 46 19	1222*	14.6		
16 34.3	+ 49 19	1223*	15.4		
16 34.8	+ 50 30		15.5		diffuse
16 36.2	+ 50 26		13.9		
16 36.3	+ 49 32		15.7		
16 37.2	+ 49 14		14.8		
16 39.5	+ 48 59		15.7		
16 39.6	+ 46 06	1226*	15.4		
16 39.6	+ 50 36		15.4		
16 40.8	+ 50 00		15.7		
16 41.6	+ 45 56		15.3		
16 43.8	+ 50 54		15.6		very compact
16 47.0	+ 48 47		14.6		extremely compact

An area of about 1/2 square degree in the S.W. corner of this plate is not covered by any of the adjacent fields. It is outlined by $16^h11^m < \alpha < 16^h17^m$, $44^\circ30' < \delta < 45^\circ00'$ and contains no galaxies bright enough for this catalogue. The only cluster of galaxies touching the area is No. 8 of Field No. 223 whose contour line is plotted in its entirety on the chart of that field.





FIELD No. 252

17^h03^m $+48^\circ00'$

Survey Plate No. 1370

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
22662	16 47 46.3	+ 46 04 10	4.86
22852	16 54 49.5	+ 50 06 58	6.70
23011	17 01 11.6	+ 47 08 23	6.74
23147	17 07 03.4	+ 50 54 17	6.28
23433	17 18 23.9	+ 45 21 24	6.65
23461	17 19 12.5	+ 48 14 13	6.32

CLUSTERS OF GALAXIES

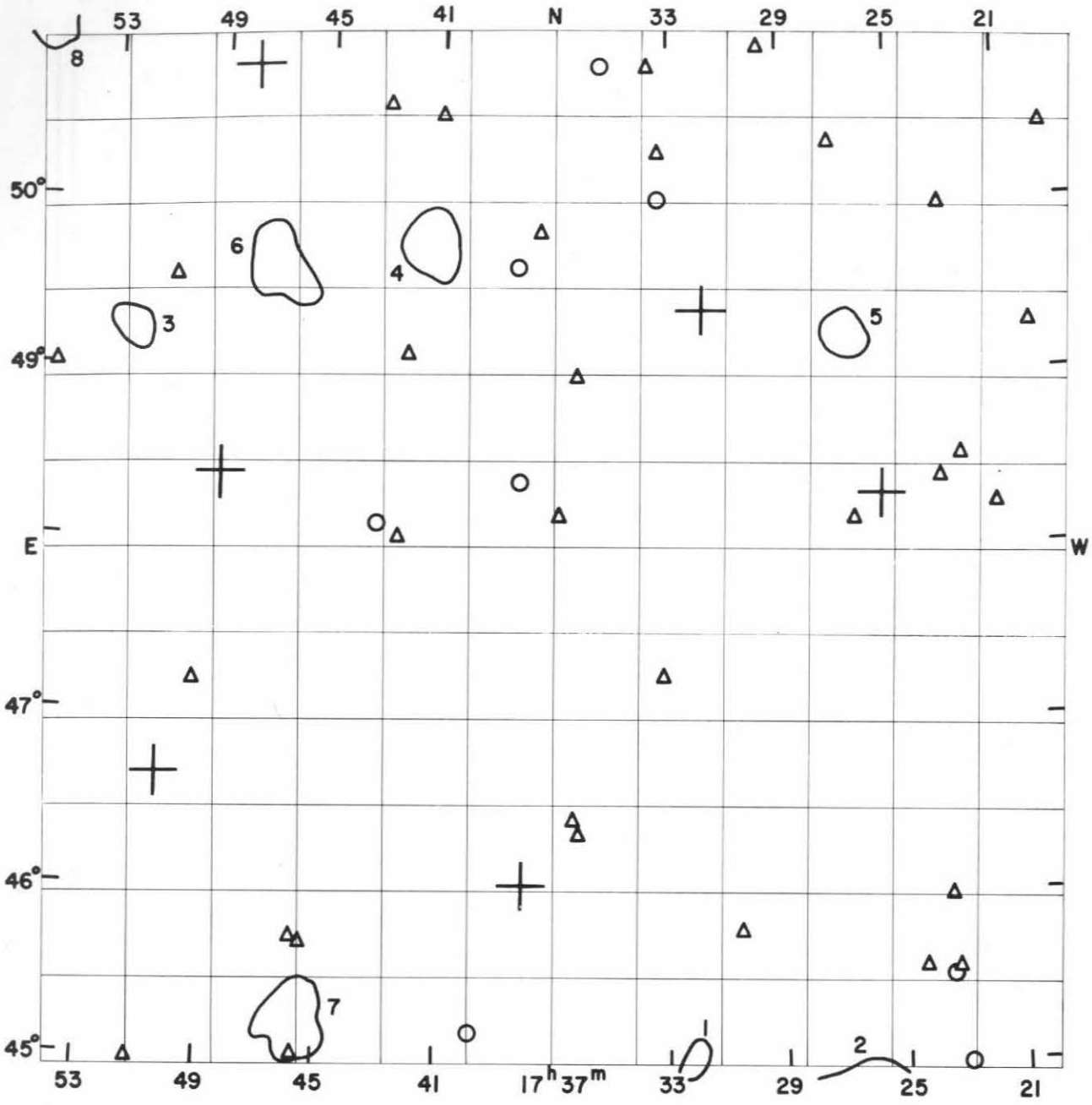
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1645.8 + 4835	medium compact	127	4.3	D	7
1646.4 + 4659	medium compact	93	2.4	D	2
1647.4 + 4908	medium compact	58	1.5	ED	8
1650.7 + 4453	compact	98	1.3	ED	1
1651.4 + 4930	medium compact	139	2.3	VD	6
1656.6 + 5016	medium compact	107	1.8	VD	5
1712.9 + 4913	medium compact	116	4.4	D	4
1718.2 + 4757	medium compact	88	1.4	ED	3

Average number of galaxies per cluster = 103.3

GALAXIES

Position α 1950 h m	Position δ 1950 ° ′	NGC IC*	m_p	V_s km/sec	Remarks
16 47.0	+ 48 47		14.6		extremely compact
16 47.8	+ 48 43		15.4		
16 48.0	+ 45 33		15.4		double system, bridge
16 48.4	+ 46 48		15.6		double system, bridge
16 48.7	+ 45 30	6241	14.8		
16 49.3	+ 45 29		15.1		diffuse spiral
16 49.6	+ 47 18		15.2		triple system, bridges
16 50.7	+ 49 24		15.7		diffuse spiral
16 53.0	+ 50 33		15.6		
16 54.4	+ 47 36		15.6		
16 55.8	+ 46 56		15.6		
16 57.3	+ 50 34		15.6		compact
16 57.6	+ 47 18	6279	14.9		
16 58.2	+ 50 00	6283	13.7		
16 59.2	+ 47 20		14.7		extremely compact
17 00.2	+ 48 30		15.0		compact
17 01.7	+ 46 27		15.3		
17 02.1	+ 45 32		15.7		
17 05.1	+ 48 01		15.5		
17 07.3	+ 47 18		15.6		
17 08.5	+ 49 22		15.4		
17 09.0	+ 48 23	6313	14.8		
17 09.6	+ 46 28		15.6		compact
17 10.0	+ 50 02		15.4		
17 10.3	+ 49 37		15.5		
17 10.5	+ 46 51		15.7		diffuse
17 10.9	+ 47 50		15.5		double system
17 12.3	+ 49 11		15.3		
17 12.9	+ 45 49		15.3		compact
17 13.0	+ 46 02		15.7		
17 13.2	+ 48 27		15.4		
17 13.7	+ 47 44		15.3		compact
17 13.9	+ 48 30		15.7		
17 14.9	+ 47 21		15.5		
17 15.6	+ 45 35		15.7		compact
17 16.3	+ 48 41		15.1		
17 16.6	+ 48 31		15.2		very compact
17 16.8	+ 50 17		15.1		compact
17 17.6	+ 49 55		13.9		
17 17.9	+ 49 01		15.5		compact

Position α 1950 h m	δ ° ′	NGC IC*	m_p	V_s km/sec	Remarks
17 18.0	+ 49 05		14.9		spiral, very long jet
17 18.0	+ 50 00		15.6		compact
17 18.2	+ 47 45		15.2		
17 19.2	+ 50 25		15.3		
17 20.0	+ 49 17		15.5		



FIELD No. 253

17^h37^m $+48^\circ00'$

Survey Plate No. 769

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
23658	17 25 24.6	+ 48 18 04	5.81
23813	17 31 45.8	+ 49 22 43	7.27
23965	17 38 03.1	+ 46 01 55	3.79
24221	17 47 52.5	+ 50 47 31	5.19
24253	17 48 44.7	+ 48 24 24	6.43
24317	17 50 37.7	+ 46 39 20	6.57

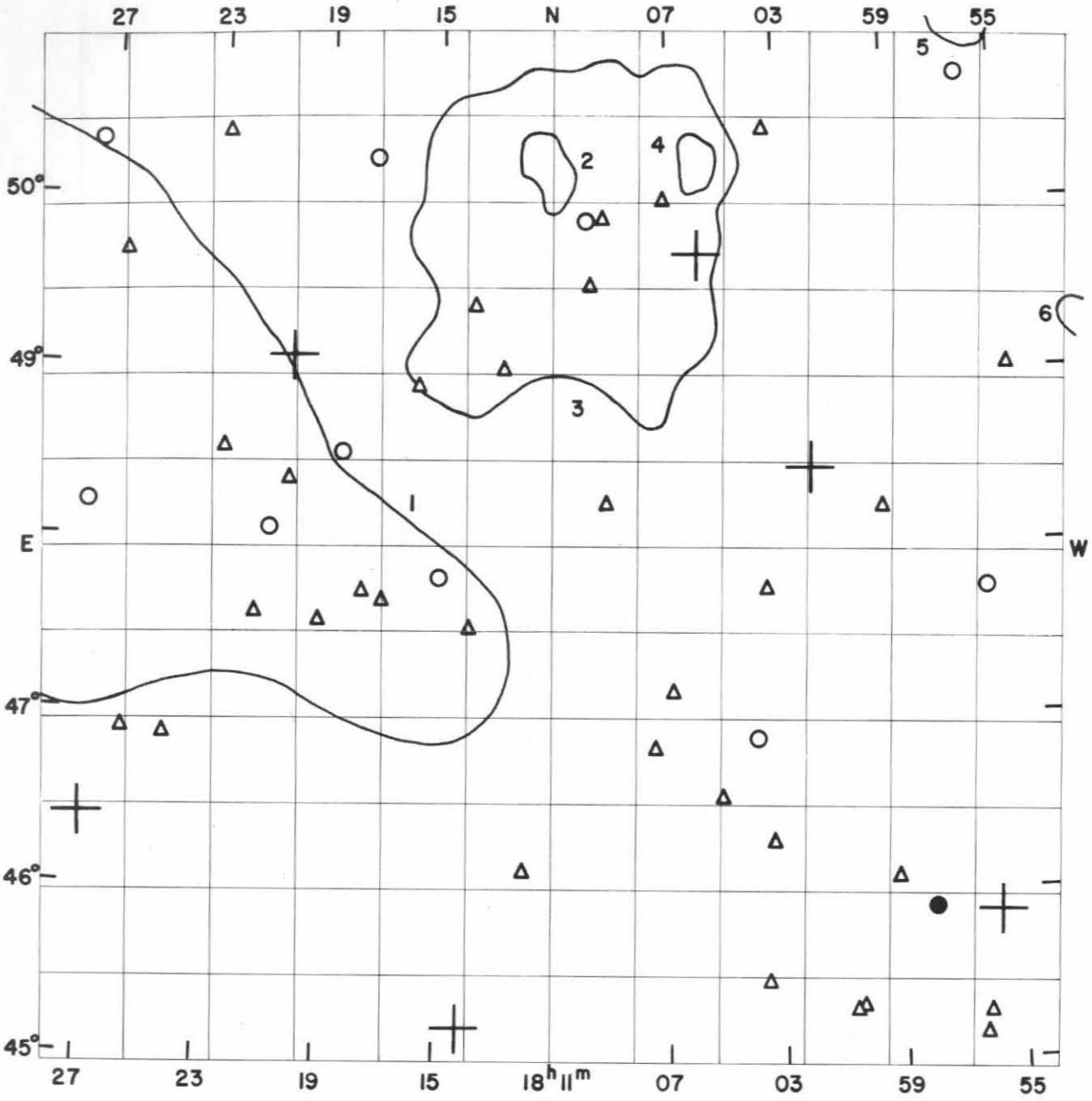
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1726.7 + 4913	medium compact	71	1.4	VD	5
1728.5 + 4353	medium compact	157	11.2	Near	2
1732.1 + 4500	compact	47	1.0	ED	1
1741.5 + 4945	medium compact	94	2.0	VD	4
1745.8 + 4513	medium compact	107	2.3	MD	7
1746.9 + 4935	medium compact	90	2.1	D	6
1752.1 + 4914	compact	65	1.2	ED	3
1756.0 + 5114	medium compact	80	3.0	VD	8

Average number of galaxies per cluster = 88.9

GALAXIES

Position α 1950 δ		NGC IC*	m_p	V_s km/sec	Remarks
h m	o '				
17 19.2	+ 50 25		15.3		
17 20.0	+ 49 17		15.5		
17 21.4	+ 48 15		15.3		
17 22.6	+ 48 31		15.4		
17 23.0	+ 45 00		14.4		
17 23.1	+ 49 59		15.7		
17 23.2	+ 45 33		15.5		
17 23.3	+ 48 23		15.5		
17 23.4	+ 45 30		14.7		
17 23.4	+ 45 59		15.5		
17 24.3	+ 45 34		15.6		compact
17 26.4	+ 48 10		15.6		
17 27.1	+ 50 20		15.7		very compact
17 29.6	+ 50 55		15.3		
17 30.5	+ 45 46		15.7		
17 33.1	+ 47 15		15.5		
17 33.3	+ 50 01		14.8		
17 33.3	+ 50 17		15.1		
17 33.7	+ 50 47		15.4		
17 35.4	+ 50 48	6409	14.8		
17 36.1	+ 46 20		15.2		
17 36.2	+ 48 59		15.6		diffuse spiral
17 36.3	+ 46 25		15.4		
17 36.9	+ 48 10		15.7		compact
17 37.5	+ 49 48		15.7		
17 38.2	+ 48 22		14.9		
17 38.3	+ 49 38		15.0		
17 39.7	+ 45 10		14.9		
17 41.0	+ 50 30		15.6		
17 42.2	+ 49 07		15.4		
17 42.5	+ 48 03		15.1		
17 43.0	+ 50 34		15.5		diffuse spiral
17 43.2	+ 48 07	6443	14.8		
17 45.5	+ 45 42		15.6		
17 45.7	+ 45 01		15.3		
17 45.9	+ 45 43		15.3		
17 49.5	+ 47 12		15.2		
17 50.6	+ 49 32		15.2		
17 51.2	+ 44 59		15.5		
17 54.8	+ 49 02		15.5		



FIELD No. 254

18^h11^m $+48^o00'$

Survey Plate No. 130

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
24444	17 55 40.1	+ 45 51 32	6.77
24607	18 01 50.5	+ 48 27 40	6.06
24722	18 05 51.3	+ 49 42 08	6.31
24937	18 14 06.3	+ 45 11 34	6.30
25085	18 20 15.8	+ 49 05 44	5.09
25238	18 27 11.4	+ 46 23 22	7.18

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1752.1 + 4914	compact	65	1.2	ED	6
1756.0 + 5114	medium compact	80	3.0	VD	5
1805.8 + 5014	compact	86	1.7	VD	4
1810.2 + 4949	medium compact	149	10.8	Near	3
1811.1 + 5011	medium compact	89	1.9	VD	2
1916.8 + 4855	medium compact	3755	73.7	Near	1*

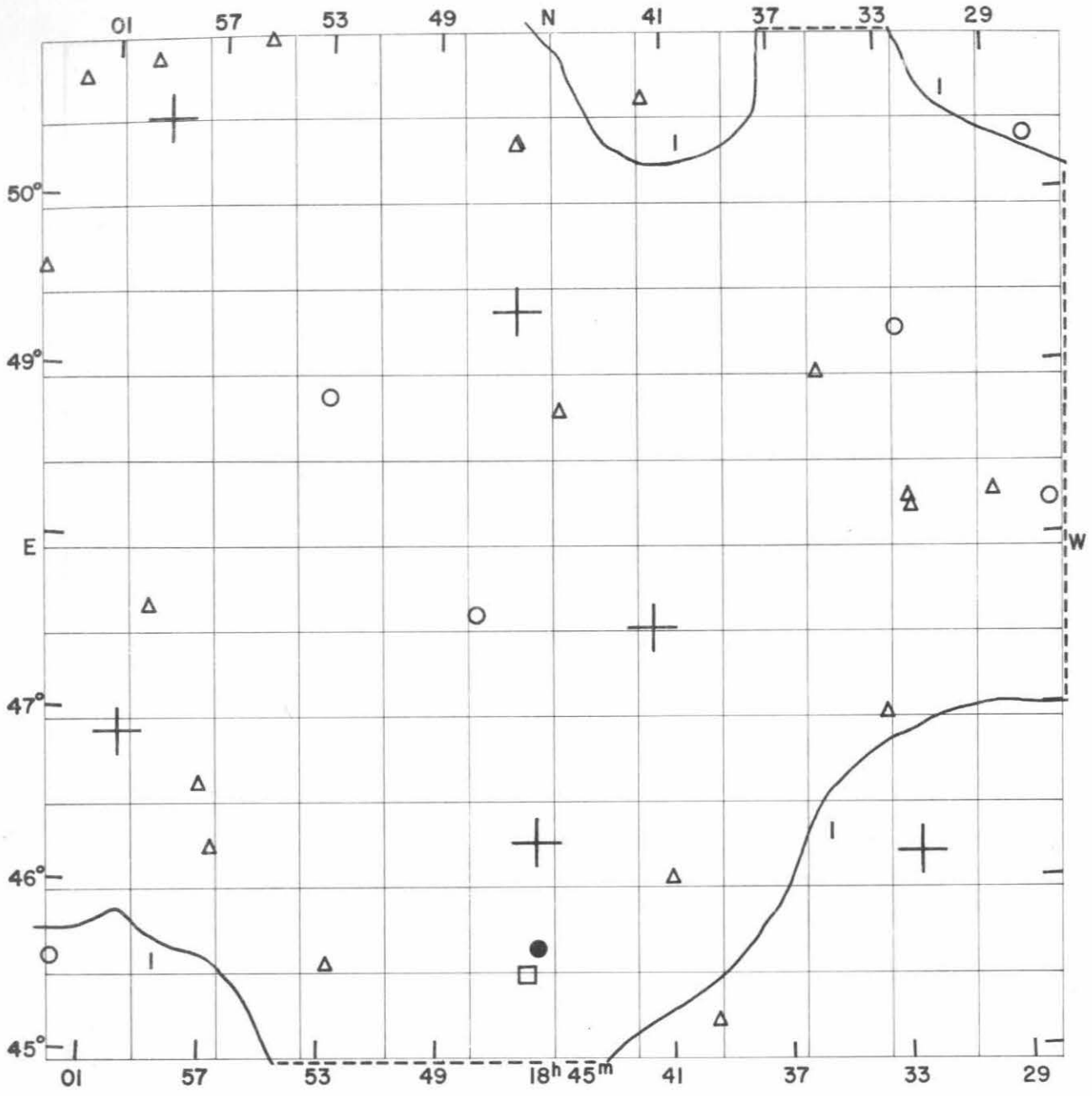
Average number of galaxies per cluster = 704.0

*) see special map on page 386

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
17 54.8	+ 49 02		15.5		
17 55.7	+ 47 45		14.9		
17 56.1	+ 45 16		15.7		compact
17 56.2	+ 50 44	6515	14.3		
17 56.3	+ 45 08		15.4		double system
17 57.8	+ 45 55	6524	14.0		
17 59.1	+ 46 05		15.7		
17 59.3	+ 48 13		15.2		
18 00.4	+ 45 18		15.3		
18 00.6	+ 45 17		15.1		
18 03.3	+ 46 16		15.3		
18 03.4	+ 50 25		15.7		
18 03.5	+ 47 45		15.6		triple system
18 03.6	+ 45 27		15.5		double system, bridge
18 03.9	+ 46 52	6560	14.2		
18 05.1	+ 46 32		15.7		compact
18 06.8	+ 47 09		15.7		
18 07.0	+ 50 01		15.6		very compact
18 07.4	+ 46 49		15.3		quadruple system
18 09.1	+ 48 15		15.7		
18 09.2	+ 49 54		15.4		compact
18 09.7	+ 49 30		15.5		
18 09.8	+ 49 53	6582	14.8		double system in halo
18 12.0	+ 46 07		15.4		
18 12.8	+ 49 02		15.4		
18 13.7	+ 49 24		15.6		
18 13.9	+ 47 31		15.6		
18 15.0	+ 47 49		14.6		
18 15.8	+ 48 55		15.7		diffuse spiral
18 16.9	+ 47 41		15.7		double system
18 17.4	+ 50 15		14.4		
18 17.6	+ 47 44		15.6		diffuse
18 18.3	+ 48 32		14.5		
18 19.1	+ 47 33		15.6		compact
18 20.3	+ 48 22		15.3		compact
18 20.9	+ 48 05		14.6		
18 21.4	+ 47 35		15.2		
18 22.6	+ 48 33		15.5		
18 22.9	+ 50 23		15.5		
18 24.4	+ 46 51		15.6		

Position α 1950 h m	δ ° ′	NGC IC*	m_p	V_s km/sec	Remarks
18 25.9	+ 46 53		15.3		
18 26.4	+ 49 41		15.7		
18 27.4	+ 48 13		14.9		
18 27.6	+ 50 20		15.0		



FIELD No. 255

$18^h45^m \quad +48^\circ00'$

Survey Plate No. 770

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ′ ″	
25379	18 32 22.8	+ 46 10 44	6.66
25627	18 41 28.5	+ 47 31 25	6.89
25755	18 45 33.7	+ 46 15 33	6.47
25773	18 46 12.0	+ 49 22 32	7.18
26138	18 58 58.3	+ 50 27 42	5.24
26181	19 00 01.4	+ 46 51 47	5.06

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1916.8 + 4855	medium compact	3755	73.7	Near	1*

Average number of galaxies per cluster = 3755.0

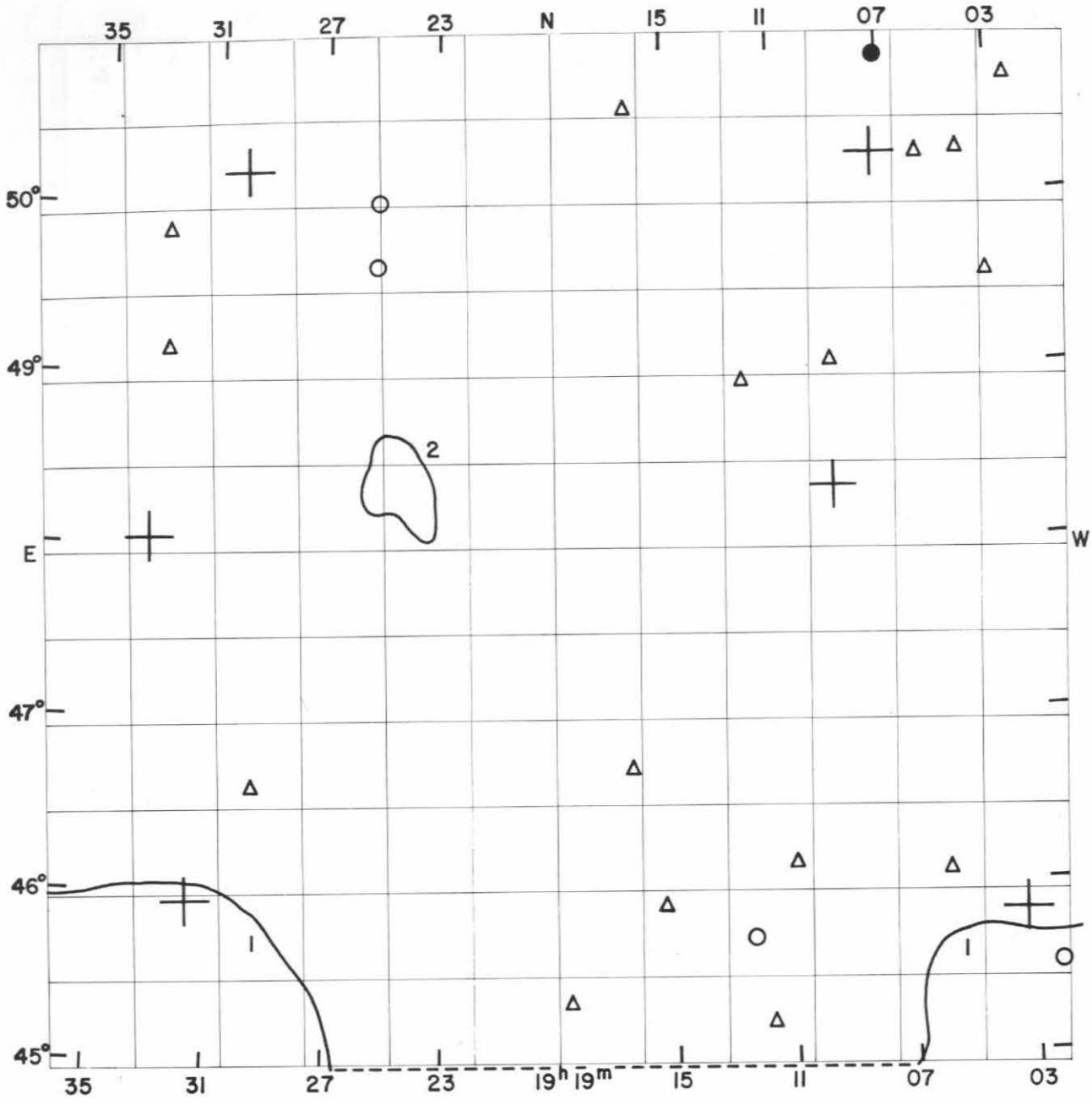
*) see special map on page 386

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
18 27.4	+ 48 13		14.9		
18 27.6	+ 50 20		15.0		
18 29.3	+ 48 16		15.3		
18 32.3	+ 48 11		15.3		
18 32.4	+ 48 15		15.6		
18 32.6	+ 49 14	1291*	14.2		
18 33.4	+ 47 00		15.5		diffuse spiral
18 35.5	+ 48 59		15.7		
18 39.5	+ 45 13		15.5		diffuse spiral
18 41.0	+ 46 04		15.7		
18 41.7	+ 50 37		15.6		double system, contact
18 44.8	+ 48 47		15.4		
18 45.6	+ 45 40	6702	13.8	+ 4728	
18 45.9	+ 45 30	6703	12.4	+ 2355	
18 46.1	+ 50 21		15.6		
18 46.2	+ 50 20		15.3		
18 47.6	+ 47 36	6711	14.1		
18 52.7	+ 45 32		15.7		
18 52.9	+ 48 51		14.3		
18 55.3	+ 50 57		15.3		
18 56.7	+ 46 12		15.7		
18 57.2	+ 46 34		15.6		
18 59.1	+ 47 36		15.7		compact
18 59.5	+ 50 48		15.1		
19 02.0	+ 45 33		15.0		double system
19 02.2	+ 50 42		15.4		
19 03.3	+ 49 34		15.1		triple system, bridges

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
6702	-	-	13.95	E2	14.0	E2	-	-
6703	-	-	13.02	S0	12.5	S0	-	-



FIELD No. 256

19^h19^m $+48^\circ00'$

Survey Plate No. 814

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ′ ″	
26268	19 03 05.5	+ 45 50 41	6.82
26399	19 07 16.7	+ 50 16 56	6.79
26437	19 09 05.6	+ 48 21 39	7.18
26990	19 29 59.8	+ 50 11 55	5.73
27029	19 31 38.4	+ 45 55 48	7.40
27078	19 33 14.5	+ 48 03 17	6.70

CLUSTERS OF GALAXIES

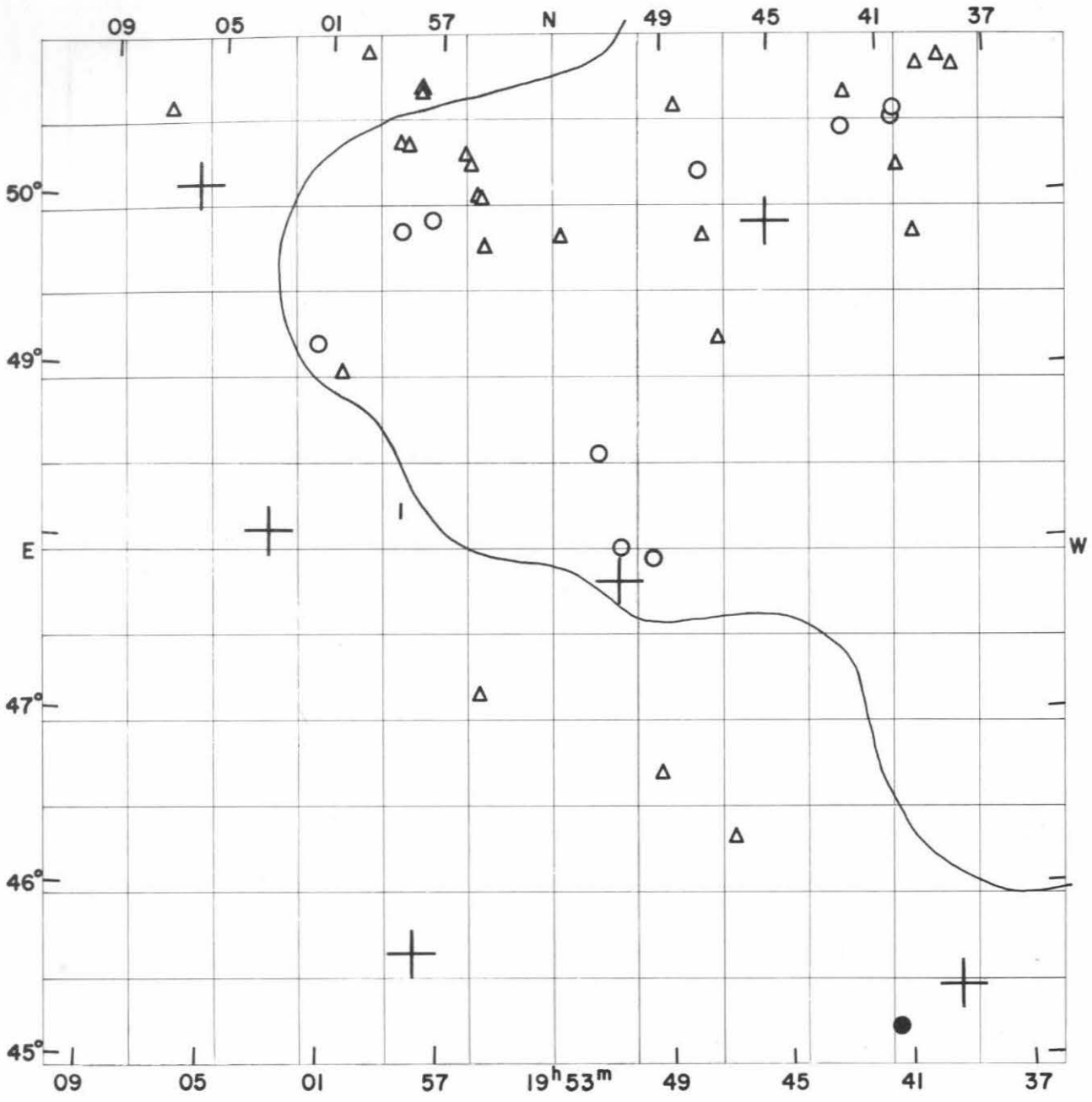
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1916.8 + 4855	medium compact	3755	73.7	Near	1*
1924.4 + 4821	medium compact	90	2.5	MD	2

Average number of galaxies per cluster = 1922.5

*) see special map on page 386

GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
19 02.0	+ 45 33		15.0		double system
19 02.2	+ 50 42		15.4		
19 03.3	+ 49 34		15.1		triple system, bridges
19 04.1	+ 50 17		15.7		
19 05.6	+ 46 06		15.3		
19 05.7	+ 50 15	6759	15.2		
19 07.0	+ 50 50	6764	13.2		
19 09.0	+ 49 05		15.6		
19 10.8	+ 46 10		15.3		
19 11.7	+ 45 14		15.4		compact
19 12.2	+ 45 44		15.0		
19 12.2	+ 48 58		15.6		compact
19 15.2	+ 45 55	6783	15.4		compact
19 16.3	+ 46 44		15.5		
19 16.4	+ 50 34		15.1		
19 18.5	+ 45 21		15.7		compact
19 25.2	+ 50 01	4867*	14.3		double system
19 25.3	+ 49 39	1301*	14.7		
19 29.5	+ 46 36		15.1		
19 32.7	+ 49 08		15.4		
19 32.8	+ 49 50		15.3		compact



FIELD No. 257

19^h53^m $+48^\circ00'$

Survey Plate No. 283

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ′ ″	
27249	19 39 17.6	+ 45 24 19	5.05
27392	19 45 10.1	+ 49 53 12	6.78
27531	19 50 38.7	+ 47 48 07	5.70
27709	19 57 46.2	+ 45 38 06	5.80
27869	20 02 59.0	+ 48 05 11	5.98
27937	20 05 45.8	+ 50 05 01	6.52

CLUSTERS OF GALAXIES

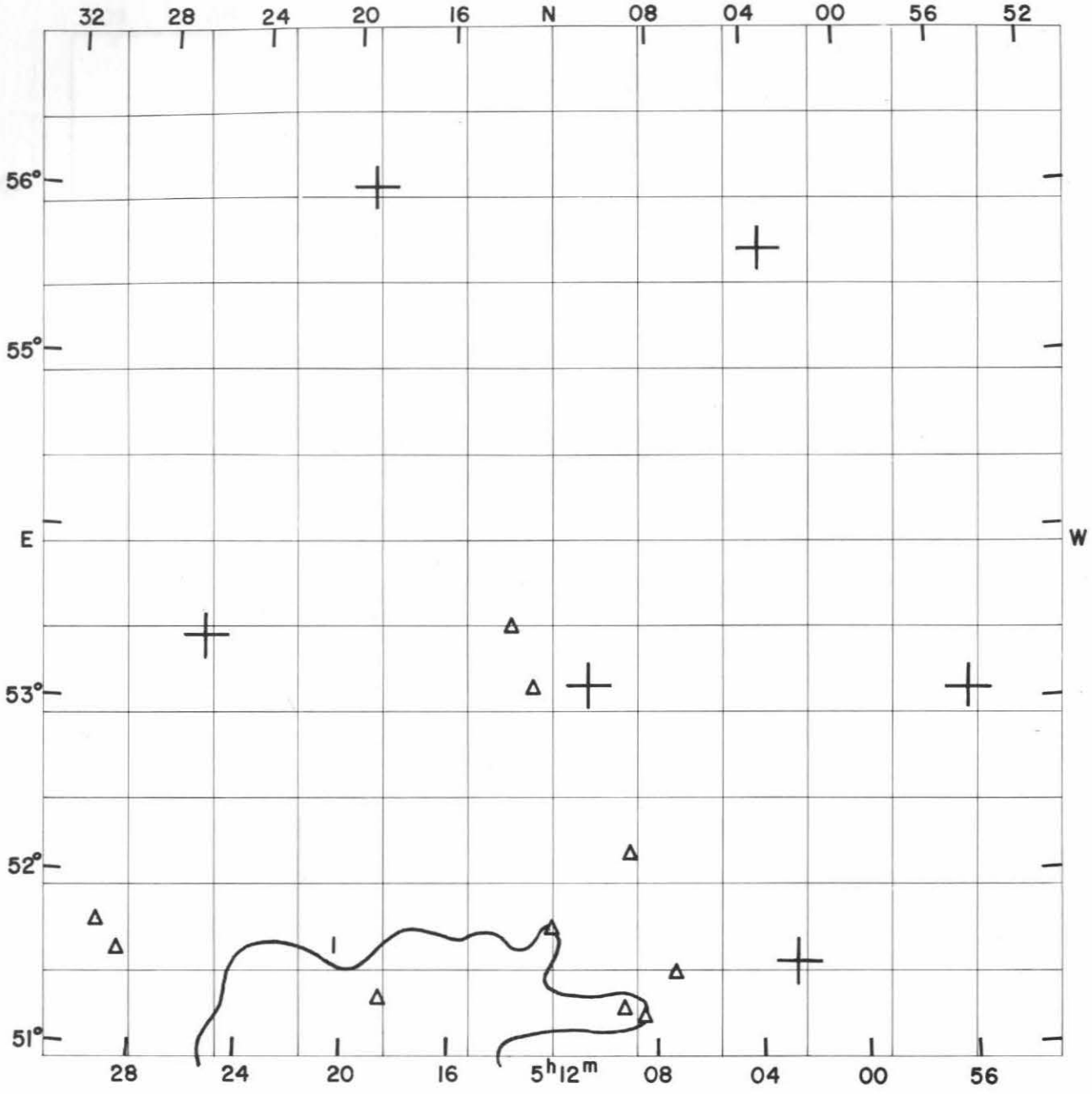
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1916.8 + 4855	medium compact	3755	73.7	Near	1*

Average number of galaxies per cluster = 3755.0

*) see special map on page 386

GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
19 38.1	+ 50 46		15.5		
19 38.6	+ 50 50		15.1		compact
19 39.5	+ 50 47		15.3		
19 39.9	+ 49 48		15.4		
19 40.3	+ 50 11		15.5		
19 40.4	+ 50 32		14.4		
19 40.5	+ 50 30		14.9		compact
19 41.4	+ 45 11		13.5		
19 42.2	+ 50 38		15.7		
19 42.3	+ 50 26		14.8		compact
19 46.8	+ 46 18		15.5		
19 47.0	+ 49 12		15.6		
19 47.5	+ 49 49		15.7		
19 47.6	+ 50 11		14.5		
19 48.5	+ 50 35		15.5		
19 49.2	+ 46 42		15.4		very compact
19 49.5	+ 47 56		14.9		compact
19 50.6	+ 48 00		15.0		
19 51.3	+ 48 34		14.8		
19 52.6	+ 49 48		15.3		double system, jets
19 55.4	+ 49 45		15.7		
19 55.5	+ 47 09		15.1		double nucleus
19 55.5	+ 50 02		15.2		compact
19 55.6	+ 50 03		15.5		diffuse
19 55.9	+ 50 14		15.7		
19 56.0	+ 50 17		15.2		
19 57.2	+ 49 54		14.5		
19 57.6	+ 50 40		15.2		
19 57.6	+ 50 41		15.4		very compact
19 58.1	+ 50 20		15.5		
19 58.3	+ 49 50		15.0		
19 58.4	+ 50 21		15.6		
19 59.7	+ 50 53		15.4		
20 00.4	+ 49 00		15.6		diffuse spiral
20 01.4	+ 49 11		14.6		
20 06.9	+ 50 32		15.3		



FIELD No. 258

5^h12^m $+54^o00'$

Survey Plate No. 1309

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
6062	4 55 46.9	+ 53 04 52	6.40
6219	5 02 45.3	+ 51 32 01	4.99
6233	5 03 37.1	+ 55 41 38	7.11
6383	5 10 43.3	+ 53 09 25	6.16
6590	5 19 31.7	+ 56 02 33	6.95
6754	5 25 50.4	+ 53 23 36	7.04

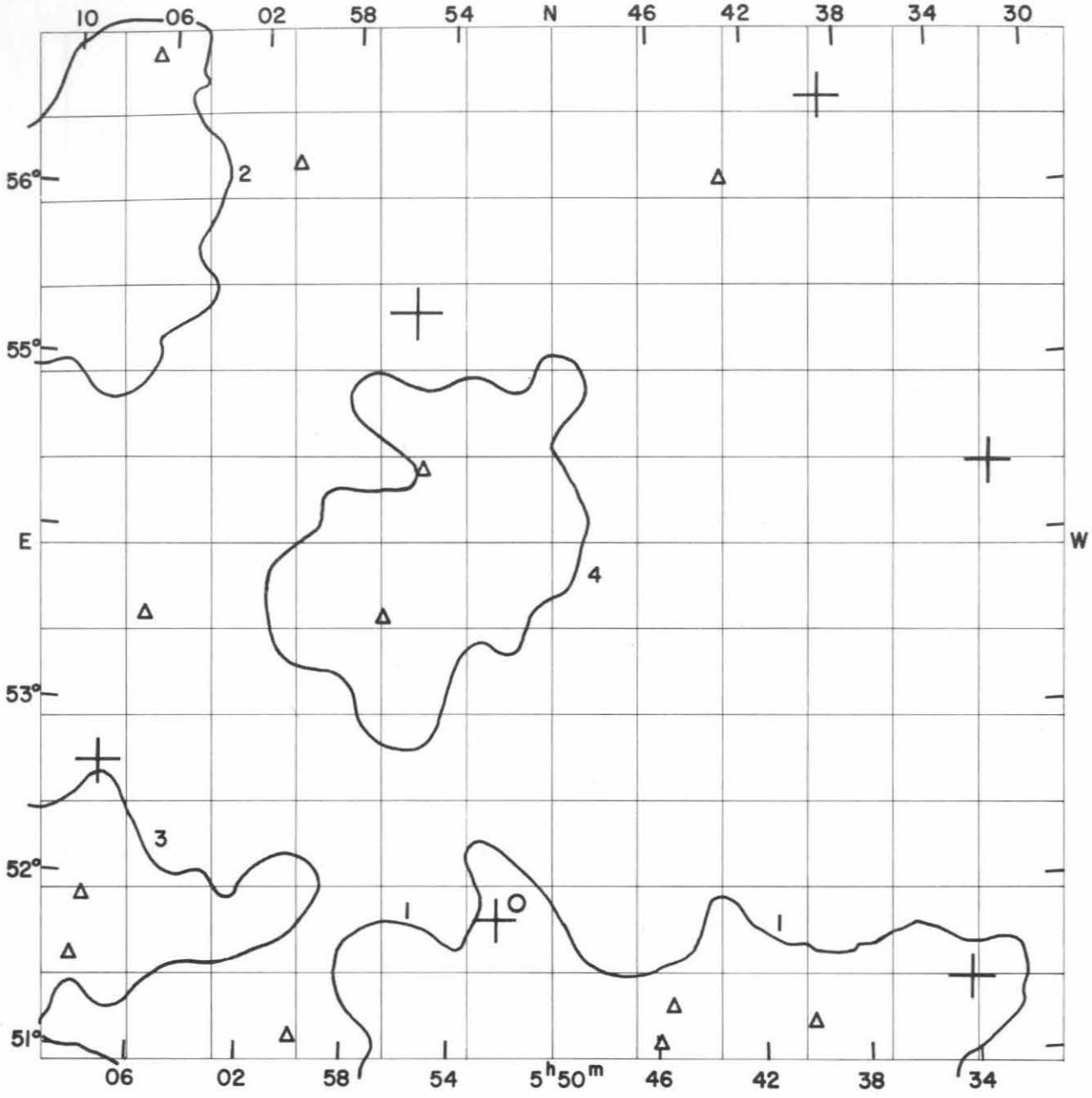
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0517.8 + 5108	medium compact	108	8.4	Near	1

Average number of galaxies per cluster = 108.0

GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
5 07.4	+ 51 29		15.5		diffuse
5 08.5	+ 51 15		15.2		
5 09.0	+ 52 11		15.3		
5 09.3	+ 51 18		15.4		
5 12.0	+ 51 45		15.6		
5 12.9	+ 53 09		15.6		
5 13.7	+ 53 30		15.2		
5 18.7	+ 51 21		15.6		
5 28.6	+ 51 34		15.7		diffuse spiral
5 29.4	+ 51 44		15.7		diffuse spiral



FIELD No. 259

5^h50^m $+54^\circ00'$

Survey Plate No. 664

GC STARS

Nos.	R.A.	Decl.	m_p
	h m o	o ' "	
6921	5 32 28.8	+ 54 23 53	5.96
6976	5 34 17.9	+ 51 24 56	7.9
7105	5 38 47.0	+ 56 33 29	6.19
7445	5 52 15.9	+ 51 47 49	6.48
7527	5 55 35.5	+ 55 19 09	6.48
7850	6 07 44.8	+ 52 39 36	6.27

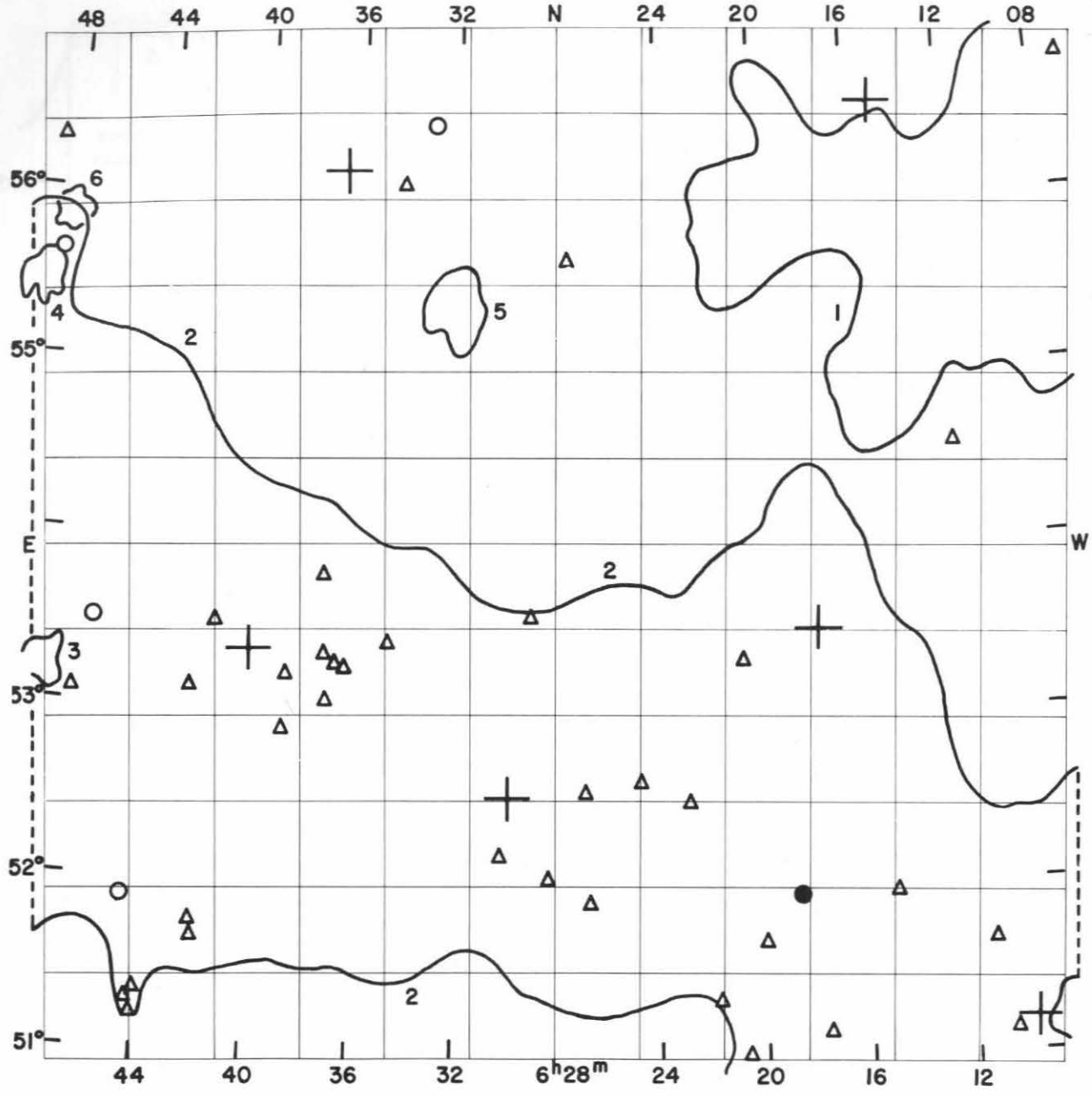
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0544.4 + 5036	open	230	17.7	Near	1
0554.9 + 5359	medium compact	168	9.7	MD	4
0612.3 + 5547	open	188	12.0	MD	2
0628.9 + 5232	open	785	28.6	Near	3

Average number of galaxies per cluster = 342.8

GALAXIES

Position α 1950 h m	Position δ ° ′	NGC IC*	m_p	V_s km/sec	Remarks
5 40.1	+ 51 11		15.5		
5 43.0	+ 56 05		15.3		
5 45.5	+ 51 19		15.6		
5 46.0	+ 51 05		15.7		
5 51.4	+ 51 55		14.6		
5 55.3	+ 54 25		15.2		
5 56.8	+ 53 33		15.6		
6 00.0	+ 51 06		15.3		compact
6 00.6	+ 56 09		15.4		very diffuse spiral
6 06.1	+ 53 31		15.7		
6 06.8	+ 56 46		15.5		compact
6 08.0	+ 51 53		15.5		
6 08.4	+ 51 32		15.7		



FIELD No. 260

6^h28^m $+54^\circ00'$

Survey Plate No. 984

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
7907	6 09 48.7	+ 51 11 15	6.28
8063	6 14 55.8	+ 56 32 52	7.06
8151	6 17 42.5	+ 53 28 38	5.41
8501	6 29 57.8	+ 52 30 04	7.2
8689	6 36 47.7	+ 56 08 47	7.09
8769	6 40 09.5	+ 53 20 59	6.38

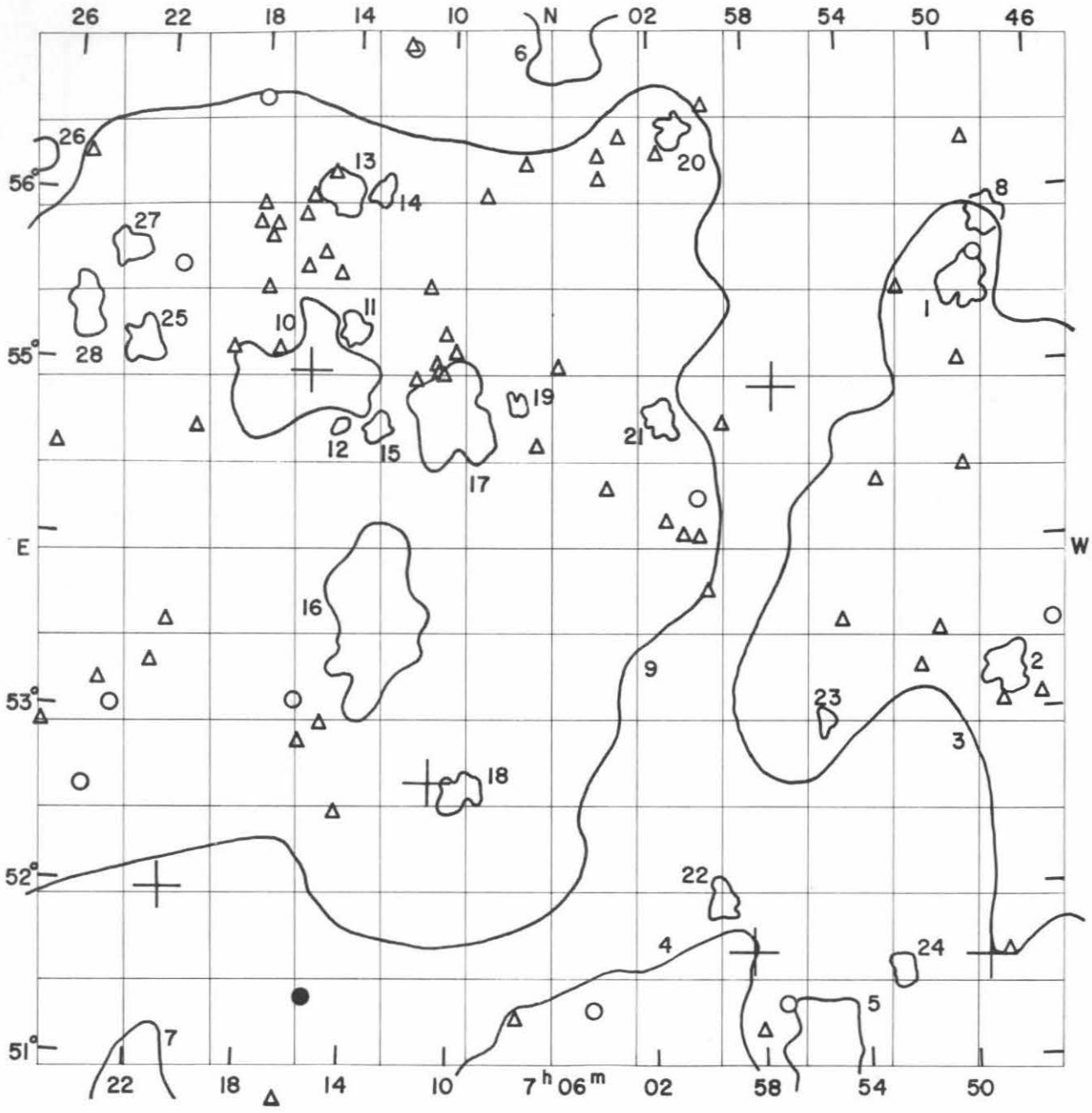
CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0612.3 + 5547	open	188	12.0	MD	1
0628.9 + 5232	open	785	28.6	Near	2
0632.1 + 5521	medium compact	68	2.1	D	5
0648.1 + 5550	compact	72	1.1	ED	6
0648.2 + 5313	compact	136	1.3	ED	3
0649.2 + 5528	medium compact	145	1.5	ED	4

Average number of galaxies per cluster = 232.3

GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
6 06.8	+ 56 46		15.5		compact
6 10.5	+ 51 08		15.7		
6 11.2	+ 51 40		15.6		compact
6 12.0	+ 54 33		15.2		
6 14.9	+ 51 57		15.3		
6 17.5	+ 51 08		15.7		
6 18.5	+ 51 57	2208	14.0		
6 20.0	+ 51 41		15.2		
6 20.6	+ 51 00		15.5		
6 20.6	+ 53 19		15.5		
6 21.7	+ 51 20		15.7		extremely compact, jet
6 22.8	+ 52 29		15.4		
6 24.7	+ 52 37		15.5		
6 26.7	+ 51 55		15.2		
6 26.9	+ 52 34		15.6		
6 27.6	+ 55 39		15.5		faint jet
6 28.3	+ 52 03		15.3		compact
6 29.0	+ 53 35		15.3		diffuse spiral
6 30.2	+ 52 11		15.1		
6 33.1	+ 56 25		14.8		
6 34.3	+ 56 05		15.4		double system
6 34.7	+ 53 24		15.4		compact
6 36.4	+ 53 16		15.4		
6 36.7	+ 53 17		15.6		extremely compact
6 37.1	+ 53 05		15.6		
6 37.1	+ 53 20		15.6		double system
6 37.3	+ 53 47		15.4		
6 38.7	+ 53 13		15.4		
6 38.8	+ 52 54		15.5		
6 41.6	+ 53 31		15.7		
6 42.0	+ 51 42		15.4		very compact
6 42.1	+ 51 47		15.5		
6 42.5	+ 53 08		15.4		very diffuse spiral
6 44.0	+ 51 13		15.5		
6 44.0	+ 51 21		15.6		compact
6 44.2	+ 51 18		15.7		diffuse
6 44.6	+ 51 54		14.7		
6 46.4	+ 53 31		14.8		
6 47.0	+ 53 05		15.7		triple system
6 48.6	+ 55 40		14.9		
6 48.8	+ 56 18		15.5		



FIELD No. 261

7^h06^m $+54^\circ00'$

Survey Plate No. 971

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
8990	6 49 30.5	+ 51 34 49	6.95
9195	6 57 08.1	+ 54 55 42	6.76
9238	6 58 22.1	+ 51 38 29	7.50
9563	7 10 51.4	+ 52 37 56	7.16
9718	7 15 47.7	+ 55 00 53	7.51
9860	7 21 03.6	+ 51 59 11	5.91

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0628.9 + 5232	open	785	28.6	Near	3
0648.1 + 5550	compact	72	1.1	ED	8
0648.2 + 5313	compact	136	1.3	ED	2
0649.2 + 5528	medium compact	145	1.5	ED	1
0652.7 + 5130	compact	76	0.9	ED	24
0655.3 + 5257	compact	52	0.5	ED	23
0655.5 + 5054	medium compact	102	3.6	VD	5
0659.4 + 5156	medium compact	78	1.0	ED	22
0700.4 + 4801	medium compact	1273	36.4	Near	4
0701.0 + 5622	compact	77	0.9	ED	20
0701.6 + 5444	medium compact	70	1.0	ED	21
0704.8 + 5730	medium compact	208	7.4	D	6
0707.4 + 5449	compact	47	0.5	ED	19
0709.5 + 5234	open	86	1.1	ED	18
0710.0 + 5444	medium compact	169	2.7	D	17
0712.9 + 5334	medium compact	94	3.9	MD	16
0713.0 + 5440	compact	66	0.8	ED	15
0713.0 + 5601	compact	48	0.8	ED	14
0714.0 + 5515	compact	76	0.8	ED	11
0714.4 + 5441	compact	48	0.3	ED	12
0714.9 + 5601	medium compact	115	1.4	ED	13
0716.1 + 5456	medium compact	93	3.7	MD	10
0718.9 + 5412	medium compact	1450	28.9	Near	9
0721.2 + 5043	medium compact	86	3.4	D	7
0722.8 + 5506	medium compact	79	1.2	ED	25
0723.5 + 5539	medium compact	67	1.0	ED	27
0725.1 + 5517	medium compact	104	1.4	ED	28
0727.9 + 5608	medium compact	79	1.1	ED	26

Average number of galaxies per cluster = 206.5

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
6 46.4	+ 53 31		14.8		
6 47.0	+ 53 05		15.7		triple system
6 48.4	+ 53 03		15.5		
6 48.6	+ 55 40		14.9		
6 48.8	+ 51 37		15.6		
6 48.8	+ 56 18		15.5		
6 49.5	+ 54 25		15.1		
6 49.5	+ 55 02		15.4		compact
6 50.8	+ 53 29		15.6		
6 51.6	+ 53 16		15.7		
6 51.9	+ 55 28		15.2		
6 53.1	+ 54 22		15.6		double system
6 54.6	+ 53 33		15.7		
6 57.1	+ 51 21		14.7		
6 58.0	+ 51 12		15.7		
6 59.1	+ 54 42		15.3		
6 59.8	+ 56 33		15.3		
6 59.9	+ 53 45		15.4		
7 00.2	+ 54 03		15.5		
7 00.2	+ 54 18		15.0		

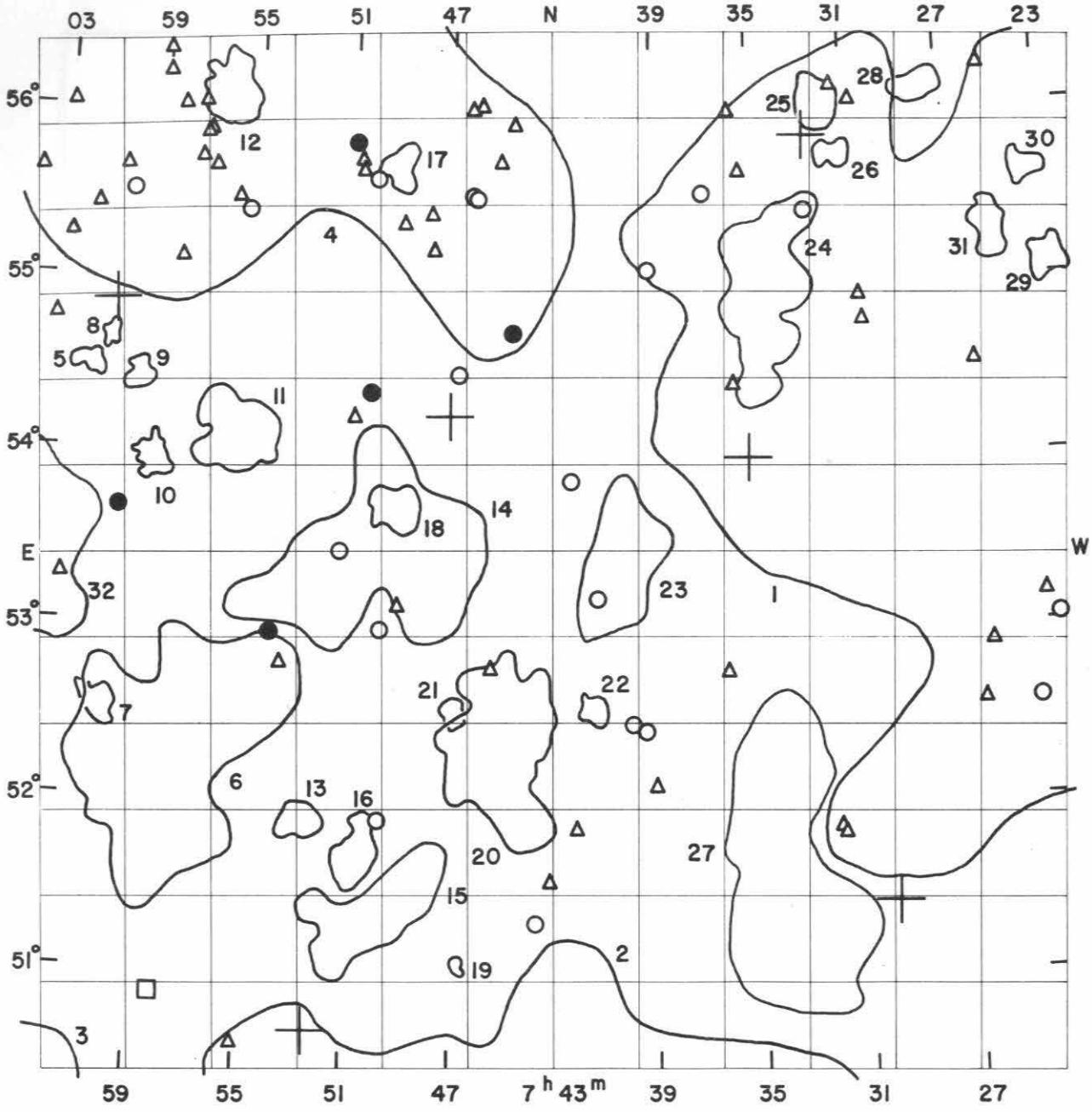
Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
7 00.8	+ 54 04		15.5		
7 01.5	+ 54 09		15.1		
7 01.6	+ 56 17		15.5		
7 03.3	+ 56 22		15.7		
7 03.9	+ 54 21		15.7		
7 04.2	+ 56 08		15.6		
7 04.2	+ 56 16		15.5		
7 04.5	+ 51 20		14.8		
7 05.8	+ 55 03		15.4		
7 06.7	+ 54 35		15.6		
7 07.1	+ 56 13		15.6		
7 07.4	+ 51 16		15.1		
7 08.8	+ 56 02		15.1		
7 10.0	+ 55 07		15.3		
7 10.3	+ 55 14		15.5		
7 10.4	+ 55 00		15.4		
7 10.5	+ 55 01		15.2		
7 10.6	+ 55 04		15.6		double system
7 11.0	+ 55 30		15.5		
7 11.6	+ 54 58		15.6		
7 11.9	+ 56 54		14.3		
7 12.0	+ 56 54		15.7		
7 14.4	+ 52 27		15.3		diffuse spiral
7 14.7	+ 55 35		15.4		
7 15.0	+ 52 58		15.4		
7 15.1	+ 56 09		15.7		
7 15.4	+ 51 24		14.0		
7 15.4	+ 55 42		15.7		compact
7 16.0	+ 52 51		15.3		
7 16.0	+ 56 01		15.2		
7 16.1	+ 53 06		14.9		diffuse spiral
7 16.1	+ 55 37		15.6		compact
7 16.3	+ 55 55		15.7		diffuse spiral
7 16.4	+ 50 46		15.5		*) see footnote
7 17.1	+ 55 08		15.5		compact
7 17.4	+ 55 50		15.4		multiple system in halo
7 17.6	+ 55 46		15.2		multiple system, faint bridges
7 17.7	+ 55 28		15.6		
7 18.0	+ 55 58		15.3		compact
7 18.0	+ 56 35		15.0		
7 18.1	+ 55 51		15.7		very compact
7 19.0	+ 55 07		15.7		compact
7 20.5	+ 54 40		15.4		
7 21.3	+ 53 32		15.2		
7 21.3	+ 55 36		14.9		double system in halo
7 21.8	+ 53 17		15.6		
7 23.2	+ 53 02		14.8		triple system in halo
7 23.8	+ 53 10		15.6		
7 24.2	+ 52 34		15.0		
7 25.3	+ 56 14		15.7		double system
7 25.9	+ 52 54		15.3		very diffuse spiral
7 26.0	+ 54 32		15.2		compact

*) An area of about one square degree near the SE-corner of this field is not covered by any of the adjacent fields. It is outlined approximately by

$$7^h13^m \leq \alpha \leq 7^h24^m \qquad 50^\circ30' \leq \delta \leq 51^\circ00'$$

It contains only one galaxy and one cluster of galaxies, both of which are plotted

on the chart in their proper positions outside of the $6^{\circ} \times 6^{\circ}$ square. The southern part of the cluster is to be found on the chart for field No. 235.



FIELD No. 262

7^h43^m $+53^o30'$

Survey Plate No. 985

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
10096	7 30 00.9	+ 51 25 23	6.52
10164	7 32 43.3	+ 55 52 03	6.04
10234	7 35 15.1	+ 54 00 59	6.59
10561	7 47 09.9	+ 54 15 22	6.02
10699	7 52 24.0	+ 50 40 34	8.5
10920	8 00 41.9	+ 54 53 18	7.46

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0718.9 + 5412	medium compact	1450	28.9	Near	1
0722.8 + 5506	medium compact	79	1.2	ED	29
0723.5 + 5539	medium compact	67	1.0	ED	30
0725.1 + 5517	medium compact	104	1.4	ED	31
0727.9 + 5608	medium compact	79	1.1	ED	28
0731.4 + 5546	medium compact	70	0.9	ED	26
0732.0 + 5603	medium compact	103	1.5	ED	25
0734.0 + 5137	medium compact	89	6.3	MD	27
0734.5 + 5457	open	99	3.9	VD	24
0739.8 + 4949	medium compact	250	15.3	Near	2
0740.4 + 5323	open	60	3.4	VD	23
0741.5 + 5235	compact	63	0.9	ED	22
0745.1 + 5220	medium compact	118	4.2	MD	20
0746.7 + 5105	compact	55	0.4	ED	19
0747.0 + 5233	compact	50	0.8	ED	21
0749.2 + 5542	compact	72	1.2	VD	17
0749.3 + 5344	compact	88	1.5	ED	18
0749.9 + 5121	medium compact	109	3.3	D	15
0750.0 + 5327	open	147	6.1	D	14
0750.5 + 5143	compact	102	1.8	VD	16
0752.7 + 5155	compact	80	1.2	ED	13
0755.8 + 5408	open	89	2.6	D	11
0756.1 + 5616	open	430	16.8	Near	4
0756.4 + 5607	medium compact	93	1.9	D	12
0757.6 + 5214	open	164	6.8	MD	6
0759.0 + 5359	compact	76	1.1	ED	10
0759.6 + 5427	medium compact	64	0.9	ED	9
0800.6 + 5232	compact	78	1.1	ED	7
0800.8 + 5441	compact	52	0.7	ED	8
0801.7 + 5431	compact	89	0.9	ED	5
0803.2 + 5012	medium compact	90	3.9	D	3
0803.9 + 5327	medium compact	148	5.6	D	32

Average number of galaxies per cluster = 147.1

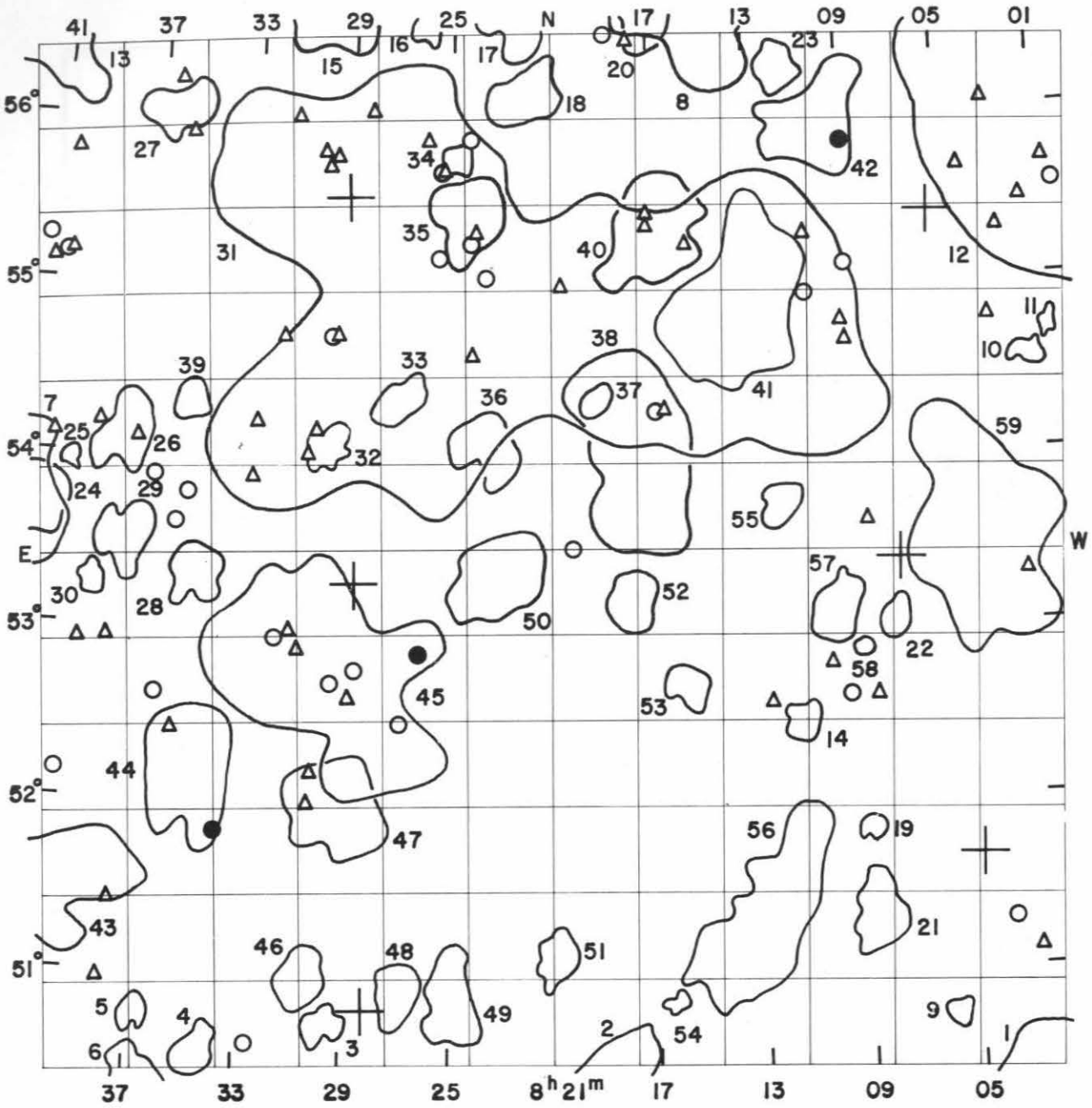
GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
7 23.2	+ 53 02		14.8		triple system in halo
7 23.8	+ 53 10		15.6		
7 24.2	+ 52 34		15.0		
7 25.3	+ 56 14		15.7		double system
7 25.9	+ 52 54		15.3		very diffuse spiral
7 26.0	+ 54 32		15.2		compact
7 26.3	+ 52 34		15.7		
7 30.5	+ 54 47		15.7		
7 30.7	+ 54 55		15.2		
7 30.7	+ 56 03		15.1		
7 31.5	+ 56 08		15.4		
7 31.9	+ 51 50		15.6		
7 32.0	+ 51 52		15.1		
7 32.7	+ 55 25		14.9		
7 35.4	+ 55 39		15.2		double system, contact
7 35.8	+ 54 26		15.6		diffuse spiral

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
7 35.8	+ 56 00		15.7		compact
7 36.1	+ 52 46		15.3		
7 36.9	+ 55 32		14.2		multiple system
7 39.0	+ 52 07		15.7		
7 39.1	+ 55 05		15.0		double system
7 39.4	+ 52 27	2426	14.4		
7 39.9	+ 52 29	2429	14.7		double system
7 41.4	+ 53 12	2431	14.3		
7 42.1	+ 51 54		15.7		extremely diffuse
7 42.3	+ 53 54		14.9		
7 43.1	+ 51 35		15.5		
7 43.7	+ 51 20		14.8		
7 44.6	+ 55 56		15.2		
7 44.7	+ 54 44	2446	13.9		
7 45.1	+ 55 43		15.3		
7 45.5	+ 52 48		15.1		very compact
7 45.9	+ 56 02		15.4		
7 46.1	+ 55 30		14.1		
7 46.2	+ 55 32		14.9		
7 46.3	+ 56 01		15.1		
7 46.8	+ 54 29		14.8		
7 47.8	+ 55 13		15.3		very diffuse
7 48.0	+ 55 25		15.7		compact
7 49.0	+ 55 21		15.5		
7 49.2	+ 53 10		15.2		
7 49.8	+ 51 56		15.0		
7 49.8	+ 53 01		14.6		
7 50.1	+ 55 37	2456	14.3		
7 50.3	+ 54 23		13.8		
7 50.7	+ 55 40	2457	15.6		
7 50.8	+ 55 43		15.7		diffuse
7 50.9	+ 54 15		15.1		
7 51.0	+ 55 50		13.6		
7 51.4	+ 53 28		14.4		
7 53.7	+ 52 50		15.4		compact
7 54.1	+ 53 00	2474+2475	13.9	+5019	double system in halo
7 55.0	+ 50 37		15.3		
7 55.4	+ 55 25		14.9		
7 56.0	+ 55 30		15.4		very compact
7 56.9	+ 55 41		15.2		
7 57.2	+ 55 53		15.5		
7 57.3	+ 55 52		15.4		
7 57.5	+ 55 43		15.1		compact
7 57.5	+ 56 03		15.6		
7 58.1	+ 55 09		15.5		double system
7 58.2	+ 50 54	2500	12.3	+ 470	m_H = 12.6 S
7 58.3	+ 56 02		15.6		
7 59.0	+ 56 13		15.5		
7 59.0	+ 56 21		15.6		
8 00.2	+ 53 42	2505	14.0		
8 00.2	+ 55 32		15.0		
8 00.6	+ 55 40		15.4		
8 01.7	+ 55 27		15.7		
8 02.3	+ 53 18		15.5		
8 02.7	+ 55 17		15.4		
8 03.0	+ 56 02		15.6		compact
8 03.3	+ 54 46		15.7		
8 04.2	+ 55 39		15.5		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
2475	-	-	-	-	-	E3	-	-
2500	-	-	12.35	Sc	12.0	Sc	12.13	Sc+



FIELD No. 263

$8^h21^m \quad +53^\circ30'$

Survey Plate No. 679

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
11018	8 04 42.3	+ 51 39 10	4.87
11038	8 05 33.2	+ 55 24 12	6.89
11087	8 07 20.1	+ 53 23 42	6.81
11645	8 28 17.0	+ 50 47 28	7.40
11665	8 28 49.0	+ 53 17 09	6.53
11677	8 29 15.1	+ 55 31 33	7.68

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0756.1 + 5616	open	430	16.8	Near	12
0800.8 + 5441	compact	52	0.7	ED	11
0801.7 + 5431	compact	89	0.9	ED	10
0803.2 + 5012	medium compact	90	3.9	D	1
0803.9 + 5327	medium compact	148	5.6	D	59
0805.9 + 5044	medium compact	49	0.8	ED	9
0807.6 + 5300	medium compact	63	1.2	VD	22
0808.6 + 5120	medium compact	63	1.9	VD	21
0808.8 + 5150	compact	53	0.8	ED	19
0808.8 + 5252	compact	47	0.6	ED	58
0809.8 + 5305	medium compact	132	1.8	ED	57
0810.0 + 5554	medium compact	95	3.1	D	42
0811.3 + 5227	compact	64	1.2	ED	14
0811.4 + 5615	medium compact	88	1.4	ED	23
0811.9 + 5344	medium compact	68	1.2	ED	55
0813.0 + 5118	medium compact	118	4.3	MD	56
0813.5 + 5449	medium compact	210	4.6	D	41
0814.8 + 5648	medium compact	102	5.6	Near	8
0815.7 + 5240	compact	83	1.4	ED	53
0816.4 + 5050	compact	48	0.7	ED	54
0816.7 + 5519	medium compact	88	3.2	VD	40
0817.0 + 5635	medium compact	166	2.0	ED	20
0817.6 + 5401	open	105	4.8	D	38
0817.8 + 5311	medium compact	106	1.7	ED	52
0818.9 + 5021	open	65	2.9	VD	2
0819.4 + 5420	medium compact	85	0.9	ED	37
0820.8 + 5106	compact	120	1.5	ED	51
0822.0 + 5605	medium compact	79	2.0	VD	18
0822.4 + 5453	open	320	14.5	Near	31
0822.7 + 5635	open	134	2.3	VD	17
0823.2 + 5320	medium compact	116	2.9	D	50
0823.7 + 5404	medium compact	149	1.9	VD	36
0824.4 + 5525	open	99	2.3	D	35
0824.8 + 5050	medium compact	73	2.2	VD	49
0824.9 + 5544	compact	88	1.0	ED	34
0826.1 + 5630	compact	138	1.0	ED	16
0826.8 + 5055	medium compact	109	1.6	ED	48
0827.1 + 5421	medium compact	92	1.5	VD	33
0829.2 + 5159	medium compact	95	3.1	D	47
0829.6 + 5245	medium compact	128	6.5	Near	45
0829.7 + 5042	medium compact	64	1.2	VD	3
0830.0 + 5405	medium compact	83	1.3	VD	32
0830.1 + 5634	medium compact	95	2.6	VD	15
0830.5 + 5058	compact	149	1.7	VD	46
0834.4 + 5031	medium compact	116	1.4	ED	4
0835.0 + 5208	medium compact	91	3.5	VD	44
0835.0 + 5320	medium compact	125	1.7	ED	28
0835.5 + 5418	medium compact	80	1.1	ED	39
0836.4 + 5017	medium compact	105	2.2	VD	6
0836.5 + 5600	medium compact	120	1.9	ED	27
0836.7 + 5045	compact	59	0.9	ED	5
0838.0 + 5331	medium compact	134	1.8	ED	29
0838.1 + 5406	medium compact	207	2.0	ED	26
0839.1 + 5316	compact	62	0.8	ED	30
0840.1 + 5128	medium compact	99	4.4	MD	43
0840.2 + 5359	compact	59	0.6	ED	25
0841.5 + 5619	medium compact	190	2.4	ED	13

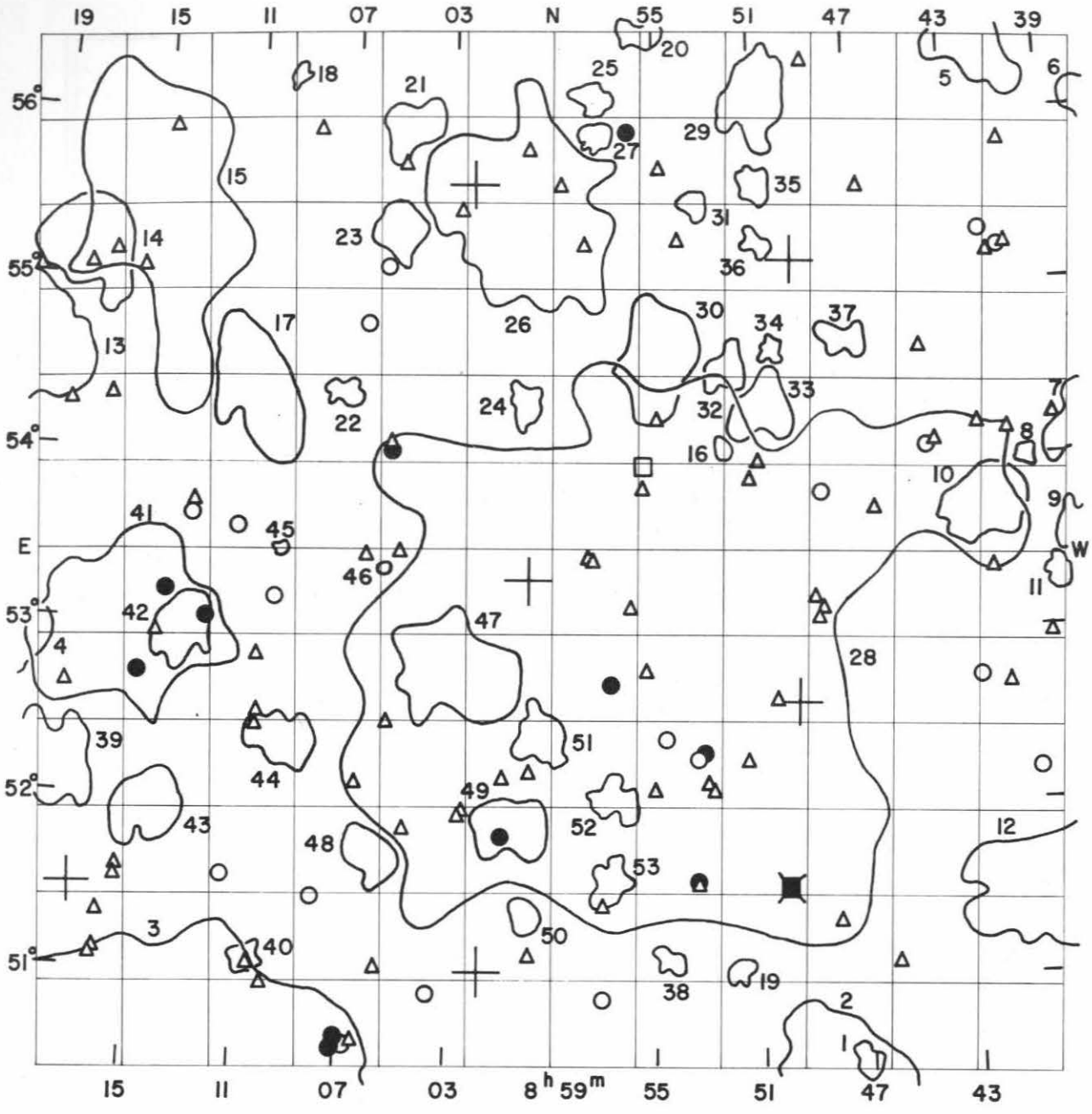
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0841.9 + 5341	medium compact	191	2.2	VD	24
0855.0 + 5248	open	295	18.0	Near	7

Average number of galaxies per cluster = 114.8

GALAXIES

Position α 1950 δ	NGC IC*	m_p	V_s km/sec	Remarks
h m o '				
8 00.2 + 55 32		15.0		
8 00.6 + 55 40		15.4		
8 01.7 + 55 27		15.7		
8 02.3 + 53 18		15.5		
8 02.6 + 51 07		15.5		
8 02.7 + 55 17		15.4		
8 03.0 + 56 02		15.6		compact
8 03.3 + 54 46		15.7		
8 03.5 + 51 17	2518=2519	14.2		
8 04.2 + 55 39		15.5		
8 08.3 + 52 37		15.7		
8 08.5 + 53 38		15.5		
8 09.0 + 55 07		14.2		
8 09.0 + 55 49	2534	13.8		
8 09.1 + 54 40		15.6		
8 09.2 + 54 46		15.2		compact
8 09.4 + 52 37		15.0		
8 10.1 + 52 48		15.4		
8 10.6 + 54 56		14.4		
8 10.7 + 55 17		15.3		
8 12.5 + 52 35		15.4		diffuse
8 15.5 + 55 15		15.5		
8 16.5 + 54 17		15.4		
8 16.9 + 54 16		14.8		
8 17.0 + 55 25		15.6		
8 17.1 + 55 20		15.3		very compact
8 17.9 + 56 26		15.6		
8 18.8 + 56 28		14.9		
8 20.2 + 53 30		15.0		
8 20.6 + 55 00		15.1		diffuse spiral
8 23.7 + 55 04		14.9		
8 24.0 + 55 18		15.1		
8 24.2 + 54 36		15.3		
8 24.2 + 55 15		14.8		
8 24.3 + 55 52		14.3		extremely compact
8 25.3 + 55 40		15.2		
8 25.4 + 55 40		14.9		
8 25.6 + 55 10		14.8		
8 26.0 + 55 50		15.3		
8 26.2 + 52 52		13.9		
8 27.0 + 52 28		14.5		
8 28.3 + 56 01		15.5		star superposed
8 28.7 + 52 46		14.7		compact
8 29.0 + 52 37		15.3		
8 29.6 + 52 42		14.4		
8 29.6 + 54 43		15.5		
8 29.8 + 55 45		15.7		
8 29.9 + 54 42		14.9		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
8 30.1	+ 55 42		15.4		
8 30.3	+ 55 47		15.7		
8 30.4	+ 52 11		15.4		
8 30.4	+ 54 10		15.6		
8 30.5	+ 52 00		15.5		
8 30.8	+ 54 01		15.7		diffuse
8 31.0	+ 52 54	2600	15.1		
8 31.4	+ 53 00	2602	15.4		
8 31.4	+ 55 59		15.2		
8 31.8	+ 54 42		15.6		
8 31.9	+ 52 58	2606	15.0		
8 32.5	+ 50 36		15.0		
8 32.8	+ 54 13		15.5		
8 32.9	+ 53 54		15.3		
8 34.0	+ 51 50		14.0		
8 35.5	+ 53 47		14.6		
8 35.8	+ 52 25		15.6		compact
8 35.9	+ 53 38		14.1		
8 35.9	+ 55 53		15.7		compact
8 36.4	+ 52 38		14.5		
8 36.4	+ 56 12		15.1		
8 36.8	+ 53 54		15.0		compact
8 37.5	+ 54 06		15.2		
8 37.9	+ 51 26		15.1		diffuse spiral
8 38.2	+ 50 58		15.7		
8 38.5	+ 52 56		15.1		
8 39.0	+ 54 12		15.7		
8 39.6	+ 52 56		15.6		
8 40.2	+ 52 11		14.9		
8 40.6	+ 55 11		15.4		compact
8 40.6	+ 55 48		15.6		very compact
8 40.8	+ 55 11		14.6		
8 40.9	+ 54 07		15.2		
8 41.3	+ 55 09		15.3		compact
8 41.6	+ 55 17		15.0		double nebula



FIELD No. 264

$8^h59^m \quad +53^\circ30'$

Survey Plate No. 982

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ′ ″	
12238	8 49 24.0	+ 55 08 30	7.35
12241	8 49 28.8	+ 52 34 43	6.99
12498	8 59 56.0	+ 53 18 24	7.08
12534	9 01 48.3	+ 51 01 28	6.73
12543	9 02 15.4	+ 55 35 25	7.64
12865	9 17 16.2	+ 51 28 35	6.12

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0836.5 + 5600	medium compact	120	1.9	ED	6
0838.0 + 5331	medium compact	134	1.8	ED	9
0838.1 + 5406	medium compact	207	2.0	ED	7
0839.1 + 5316	compact	62	0.8	ED	11
0840.1 + 5128	medium compact	99	4.4	MD	12
0840.2 + 5359	compact	59	0.6	ED	8
0841.5 + 5619	medium compact	190	2.4	ED	5
0841.9 + 5341	medium compact	191	2.2	VD	10
0847.2 + 5029	medium compact	53	0.9	ED	1
0847.4 + 5440	compact	79	1.2	ED	37
0847.8 + 5020	open	102	4.4	VD	2
0850.4 + 5437	compact	54	0.7	ED	34
0850.8 + 5416	medium compact	149	1.9	ED	33
0850.8 + 5605	compact	188	2.5	ED	29
0850.9 + 5514	compact	63	0.8	ED	36
0850.9 + 5535	medium compact	88	1.1	ED	35
0851.8 + 5101	compact	68	0.8	ED	19
0852.1 + 5430	compact	121	1.3	ED	32
0852.2 + 5403	compact	49	0.6	ED	16
0853.4 + 5528	medium compact	48	0.9	ED	31
0854.5 + 5106	medium compact	59	0.8	ED	38
0854.8 + 5434	medium compact	115	3.0	MD	30
0855.0 + 5248	open	295	18.0	Near	28
0855.5 + 5628	medium compact	73	1.0	ED	20
0856.6 + 5202	medium compact	113	1.4	ED	52
0856.7 + 5133	compact	86	1.3	ED	53
0857.4 + 5552	medium compact	93	1.0	VD	27
0857.5 + 5606	compact	71	1.1	ED	25
0859.4 + 5224	compact	180	1.6	ED	51
0900.0 + 5121	medium compact	61	1.0	ED	50
0900.0 + 5419	compact	75	1.1	ED	24
0900.2 + 5525	open	120	5.9	MD	26
0900.6 + 5153	medium compact	99	2.1	VD	49
0902.7 + 5246	medium compact	132	3.5	D	47
0904.9 + 5555	medium compact	120	1.8	ED	21
0905.3 + 5519	medium compact	93	1.7	VD	23
0905.6 + 5322	compact	55	0.3	ED	46
0905.9 + 5143	compact	145	1.6	ED	48
0907.2 + 5422	medium compact	52	0.9	ED	22
0909.5 + 5221	medium compact	121	2.0	ED	44
0909.7 + 5612	compact	52	0.6	ED	18
0909.8 + 5328	compact	35	0.4	ED	45
0910.5 + 5105	compact	60	0.9	ED	40
0910.7 + 5421	medium compact	194	3.3	VD	17
0913.4 + 5258	medium compact	198	2.0	ED	42
0914.5 + 5156	compact	225	2.2	ED	43
0915.0 + 5521	medium compact	172	6.7	MD	15
0915.6 + 5258	open	138	5.6	MD	41
0916.7 + 4952	open	199	15.7	Near	3
0917.9 + 5508	compact	326	3.1	VD	14
0918.1 + 5209	compact	301	2.8	ED	39
0919.2 + 5431	medium compact	309	3.1	VD	13
0919.5 + 5251	medium compact	122	2.0	ED	4

Average number of galaxies per cluster = 124.8

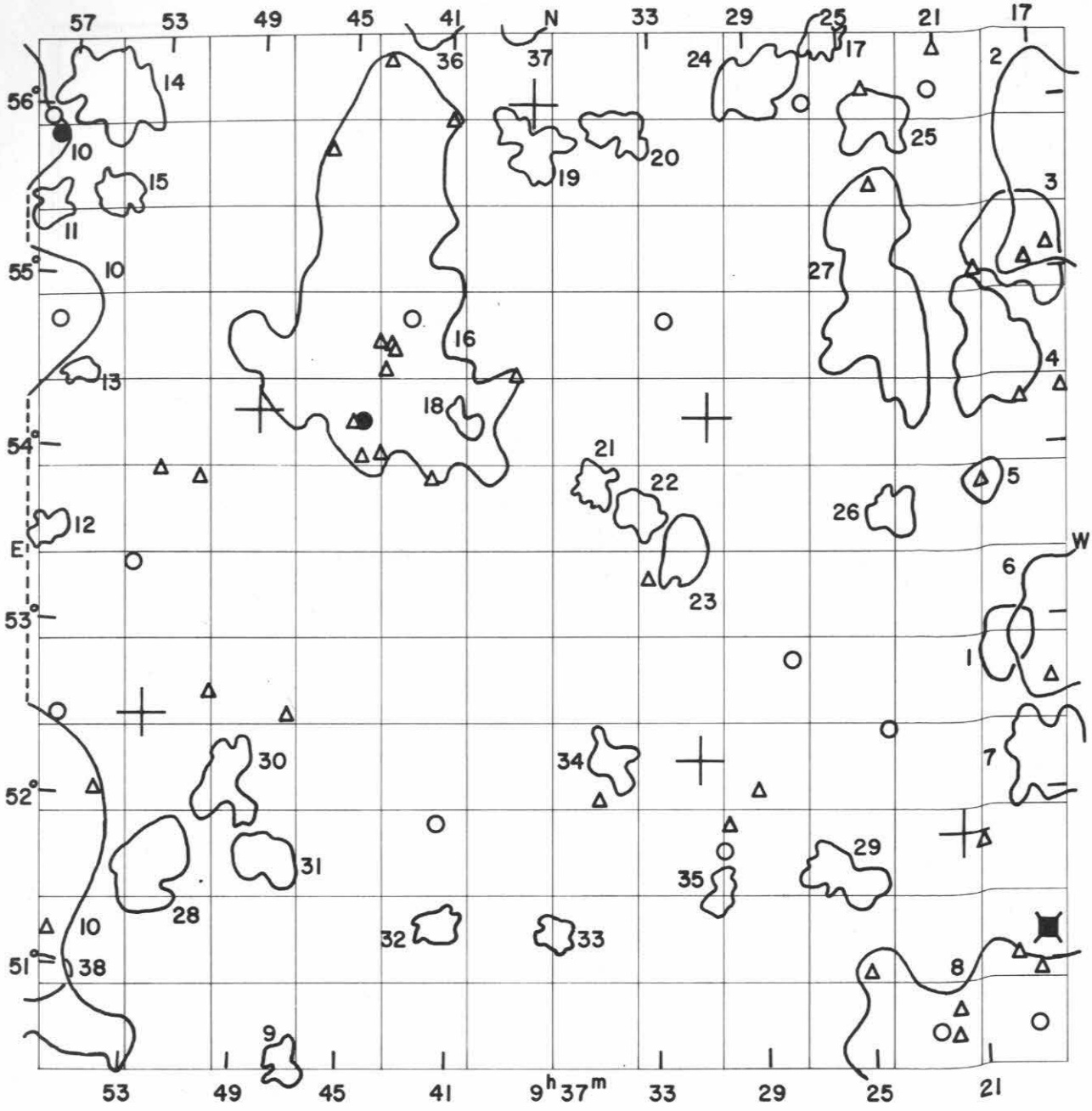
GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
8 39.0	+ 54 12		15.7		
8 39.6	+ 52 56		15.6		
8 40.2	+ 52 11		14.9		
8 40.6	+ 55 11		15,4		compact
8 40.6	+ 55 48		15.6		very compact
8 40.8	+ 55 11		14.6		
8 40.9	+ 54 07		15.2		
8 41.2	+ 52 40		15.7		
8 41.3	+ 55 09		15.3		compact
8 41.6	+ 55 17		15.0		double nebula
8 41.7	+ 53 20		15.6		quadruple system
8 42.0	+ 54 10		15.1		double system, jet
8 42.3	+ 52 43		14.9		
8 43.8	+ 54 05		15.7		
8 44.1	+ 54 03	2656	15.0		double system in halo
8 44.2	+ 54 37		15.7		
8 45.9	+ 51 04		15.3		
8 46.2	+ 53 42		15.5		compact
8 46.5	+ 55 33		15.2		double system
8 48.0	+ 51 19		15.5		
8 48.3	+ 53 48	2675	14.4		
8 48.4	+ 53 07		15.3		double system
8 48.5	+ 53 04		15.5		
8 48.6	+ 56 17		15.6		triple system
8 48.7	+ 53 11		15.6		
8 49.9	+ 51 31	2681	10.4	+ 720	m_H = 11.3 Sa
8 50.2	+ 52 35		15.2		compact
8 50.9	+ 53 58		15.7		
8 51.1	+ 53 53		15.5		
8 51.4	+ 52 15		15.7		
8 52.7	+ 52 05		15.2		
8 53.0	+ 52 07		15.4		compact
8 53.1	+ 52 18		13.6		
8 53.3	+ 51 02	2694	15.2	+ 5123	very compact
8 53.3	+ 51 03	2693	13.1	+ 4956	m_H = 12.9 E
8 53.3	+ 52 16	2692	14.1		
8 54.0	+ 55 15		15.4		compact
8 54.5	+ 52 23		14.9		
8 54.7	+ 55 40		15.6		disrupted multiple system
8 54.9	+ 54 14		15.6		
8 55.0	+ 52 05		15.3		
8 55.3	+ 52 46		15.7		
8 55.3	+ 53 57	2701	12.3		m_H = 12.5 S
8 55.4	+ 53 49		15.7		
8 55.9	+ 53 07		15.6		double system
8 56.0	+ 55 53	2710	13.8		
8 56.7	+ 52 42		13.7		
8 57.0	+ 51 25		15.1		
8 57.1	+ 50 53		15.0		faint companion
8 57.4	+ 53 25		15.4		
8 57.5	+ 53 25		15.5		
8 57.8	+ 55 14		15.4		
8 58.6	+ 55 35		15.7		
8 59.9	+ 51 07		15.6		
8 59.9	+ 52 11		15.3		
9 00.0	+ 55 47		15.5		compact
9 01.0	+ 51 50		13.6		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
9 01.0	+ 52 09		15.5		
9 02.4	+ 51 57	2739	15.5		
9 02.5	+ 51 56	2740	15.1		
9 02.7	+ 55 25		15.7		
9 03.6	+ 50 55		14.2		
9 04.7	+ 51 51		15.3		
9 05.0	+ 53 27		15.4		compact
9 05.0	+ 55 42		15.6		
9 05.4	+ 52 28		15.7		
9 05.4	+ 54 03	2756	13.2		
9 05.4	+ 54 06		15.5		
9 05.6	+ 51 03		15.7		
9 05.7	+ 55 06		14.8		
9 06.3	+ 53 26		15.7		
9 06.4	+ 50 38	2762	15.7		
9 06.4	+ 54 46		14.5		
9 06.5	+ 52 07		15.5		compact
9 06.7	+ 50 37	2767	14.4		
9 07.0	+ 50 39	2769	13.8		
9 07.1	+ 50 36	2771	14.0		
9 08.0	+ 51 28		14.5		
9 08.5	+ 55 53		15.5		
9 09.8	+ 50 57		15.7		
9 09.9	+ 53 11		14.2		
9 10.3	+ 51 03		15.6		very compact
9 10.3	+ 52 30		15.1		
9 10.4	+ 52 26		15.5		
9 10.4	+ 52 50		15.4		
9 11.3	+ 53 35		14.8		
9 11.4	+ 51 34		14.6		
9 12.5	+ 53 03		14.0		
9 13.1	+ 53 43		15.5		
9 13.2	+ 53 39		14.7		
9 14.1	+ 53 12		13.4		
9 14.4	+ 52 56		15.3		
9 14.6	+ 55 52		15.7		
9 15.0	+ 52 43	2800	14.0		
9 15.4	+ 51 35		15.2		
9 15.5	+ 51 32		15.3		
9 15.6	+ 55 03		15.4		
9 16.0	+ 51 19		15.4		
9 16.1	+ 51 05		15.7		
9 16.2	+ 51 04		15.7		
9 16.6	+ 54 19		15.6		
9 16.8	+ 55 09		15.7		compact
9 17.8	+ 52 39		15.6		
9 17.8	+ 55 04		15.3		compact
9 18.2	+ 54 16		15.6		
9 19.9	+ 55 02		15.3		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
2681	11.1	Sa	11.17	Sa	11.0	Sa	11.33	Sa
2693	12.9	E	13.48	E2	13.3	E2	-	-
2694	-	-	15.46	E0	15.5	E0	-	-



FIELD No. 265

9^h37^m $+53^o30'$

Survey Plate No. 681

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
12962	9 21 28.3	+ 51 47 23	6.37
13189	9 30 49.7	+ 54 16 10	7.16
13212	9 31 24.7	+ 52 16 30	4.65
13349	9 37 46.1	+ 56 05 40	6.67
13559	9 48 43.1	+ 54 17 56	4.54
13652	9 52 47.3	+ 52 30 24	6.79

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0915.0 + 5521	medium compact	172	6.7	MD	2
0915.6 + 5258	open	138	5.6	MD	6
0916.7 + 4952	open	199	15.7	Near	8
0917.9 + 5508	compact	326	3.1	VD	3
0918.1 + 5209	compact	301	2.8	ED	7
0919.2 + 5431	medium compact	309	3.1	VD	4
0919.5 + 5251	medium compact	122	2.0	ED	1
0920.0 + 5348	medium compact	67	1.2	ED	5
0923.6 + 5340	medium compact	78	1.4	ED	26
0923.7 + 5453	medium compact	292	4.5	D	27
0923.7 + 5557	medium compact	147	2.0	ED	25
0925.7 + 5626	compact	100	1.2	ED	17
0926.0 + 5135	medium compact	172	1.8	ED	29
0928.6 + 5610	medium compact	181	2.2	VD	24
0930.8 + 5130	medium compact	70	1.1	ED	35
0931.9 + 5329	compact	106	1.8	ED	23
0933.6 + 5343	compact	107	1.5	ED	22
0934.4 + 5556	medium compact	95	1.5	ED	20
0934.8 + 5216	medium compact	88	1.4	ED	34
0935.4 + 5353	medium compact	68	1.2	VD	21
0937.0 + 5117	medium compact	82	1.1	ED	33
0937.8 + 5550	medium compact	140	1.8	ED	19
0938.1 + 5645	medium compact	174	2.7	VD	37
0940.5 + 5415	compact	73	0.9	ED	18
0941.4 + 5120	compact	79	1.2	ED	32
0941.9 + 5653	compact	149	3.8	D	36
0943.7 + 5454	medium compact	187	8.8	Near	16
0947.0 + 5030	medium compact	92	1.2	ED	9
0948.0 + 5142	medium compact	111	1.7	ED	31
0949.6 + 5207	medium compact	160	2.0	ED	30
0952.3 + 5136	medium compact	189	2.5	ED	28
0955.0 + 5530	medium compact	86	1.4	VD	15
0955.4 + 5605	open	125	2.8	VD	14
0956.0 + 5429	compact	80	0.9	ED	13
0956.9 + 5332	medium compact	82	1.1	ED	12
0957.7 + 5059	medium compact	111	3.2	D	38
0957.7 + 5525	medium compact	93	1.3	ED	11
1012.8 + 5337	open	685	28.3	Near	10

Average number of galaxies per cluster = 153.6

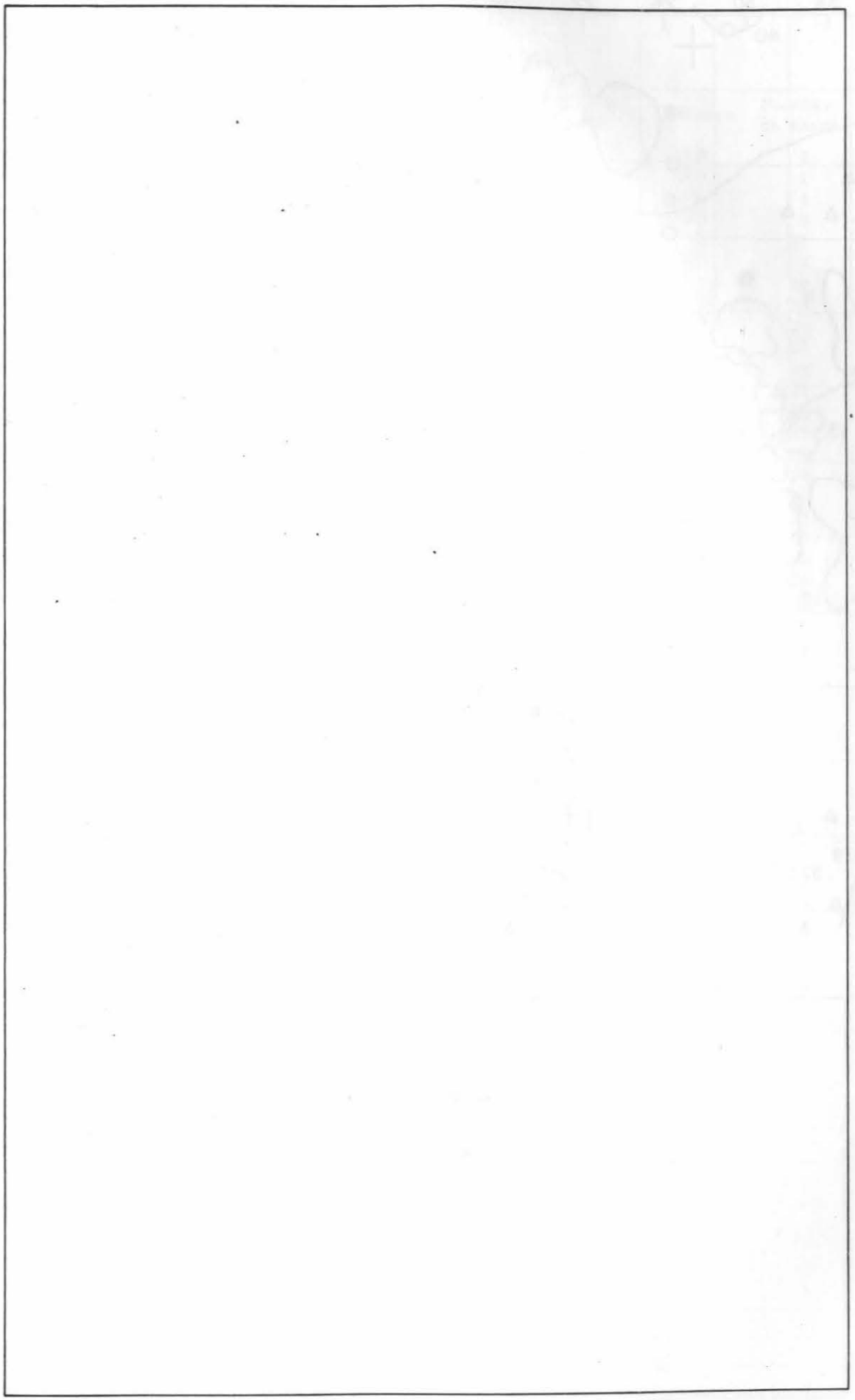
GALAXIES

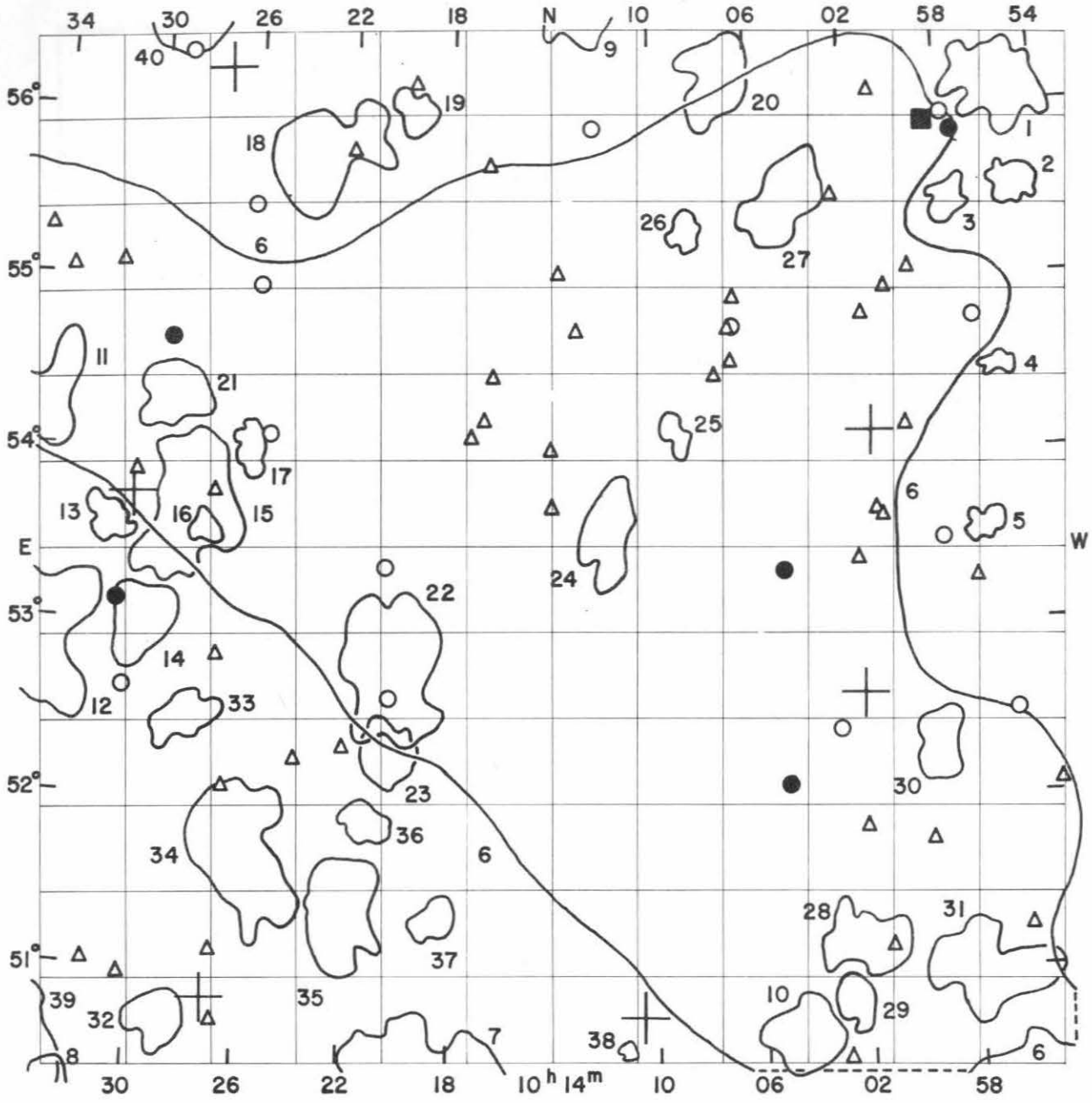
Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
9 16.6	+ 54 19		15.6		
9 16.8	+ 55 09		15.7		compact
9 17.8	+ 52 39		15.6		
9 17.8	+ 55 04		15.3		compact
9 18.2	+ 54 16		15.6		
9 18.5	+ 51 12	2841	9.9	+ 662	m_H = 10.5 Sb
9 18.8	+ 50 59		15.7		
9 19.0	+ 50 40		14.9		double system, bridge + halo
9 19.6	+ 51 04		15.5		
9 19.9	+ 55 02		15.3		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
9 20.0	+ 53 49		15.3		
9 20.6	+ 51 45		15.4		
9 21.0	+ 56 20		15.2		
9 21.3	+ 56 06		14.8		
9 21.9	+ 50 47		15.7		
9 22.0	+ 50 38		15.1		
9 22.6	+ 50 40		14.8		
9 24.0	+ 52 26		15.0		
9 24.0	+ 55 34		15.1		compact
9 24.1	+ 56 07		15.7		
9 25.0	+ 51 02		15.2		
9 26.6	+ 56 04		14.5		
9 27.7	+ 52 51		14.9		
9 29.1	+ 52 06		15.5		extremely diffuse
9 30.2	+ 51 54		15.5		
9 30.5	+ 51 46		14.7		faint companion
9 32.4	+ 54 49		14.8		
9 33.2	+ 53 20		15.4		
9 35.3	+ 52 04		15.4		compact
9 38.5	+ 54 31		15.7		
9 41.0	+ 56 00		15.3		diffuse spiral
9 41.3	+ 51 55		15.0		
9 41.8	+ 53 55		15.1		
9 42.7	+ 54 50		15.0		
9 43.3	+ 54 40		15.2		
9 43.4	+ 54 41		15.1		
9 43.6	+ 54 32		15.4		
9 43.7	+ 56 20		15.2		double system
9 43.8	+ 54 03		15.7		triple system
9 43.9	+ 54 43		15.5		compact
9 44.5	+ 54 02		15.6		compact
9 44.5	+ 54 15		14.0		
9 44.9	+ 54 14		15.4		diffuse
9 46.0	+ 55 48		15.7		
9 47.2	+ 52 31		15.4		
9 50.2	+ 52 39		15.3		compact
9 51.0	+ 53 53		15.6		double system, faint jet
9 52.5	+ 53 55		15.3		
9 53.4	+ 53 23		15.0		double system, contact
9 54.5	+ 52 05		15.1		
9 55.9	+ 51 15		15.2		
9 56.0	+ 52 30		14.9		compact
9 56.9	+ 54 47		14.9		
9 57.4	+ 55 51	3073	13.8		
9 57.8	+ 55 57		14.6		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
2841	10.1	Sb	10.02	Sb	10.0	Sb	10.10	Sb-





FIELD No. 266

10^h14^m $+53^o30'$

Survey Plate No. 1331

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
13827	10 01 17.8	+ 54 08 04	5.74
13842	10 01 54.4	+ 52 36 51	6.15
14030	10 10 33.2	+ 50 44 39	6.63
14414	10 27 09.9	+ 50 49 34	6.70
14427	10 27 26.5	+ 56 14 16	4.84
14498	10 30 36.2	+ 53 45 21	6.44

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
0955.0 + 5530	medium compact	86	1.4	VD	2
0955.4 + 5605	open	125	2.8	VD	1
0956.0 + 5429	compact	80	0.9	ED	4
0956.9 + 5332	medium compact	82	1.1	ED	5
0957.7 + 5059	medium compact	111	3.2	D	31
0957.7 + 5525	medium compact	93	1.3	ED	3
0959.0 + 5217	medium compact	116	1.8	ED	30
1002.2 + 5110	medium compact	235	2.3	ED	28
1002.8 + 5050	medium compact	89	1.4	VD	29
1004.5 + 5527	medium compact	162	2.5	ED	27
1004.7 + 5038	medium compact	111	2.3	VD	10
1007.1 + 5613	medium compact	76	2.2	VD	20
1008.5 + 5517	medium compact	63	1.1	ED	26
1009.0 + 5407	medium compact	65	1.1	ED	25
1011.3 + 5035	compact	48	0.5	ED	38
1012.0 + 5334	medium compact	128	2.3	VD	24
1012.8 + 5337	open	685	28.3	Near	6
1013.0 + 5634	medium compact	154	2.1	ED	9
1018.6 + 5119	compact	88	1.3	ED	37
1018.8 + 5020	compact	301	4.6	VD	7
1019.6 + 5600	medium compact	94	1.3	ED	19
1020.3 + 5246	open	102	3.8	MD	22
1020.4 + 5216	medium compact	152	2.0	ED	23
1021.1 + 5153	medium compact	55	1.3	VD	36
1022.0 + 5120	compact	176	3.0	ED	35
1023.2 + 5543	medium compact	123	3.3	D	18
1025.8 + 5140	open	86	4.0	D	34
1026.0 + 5400	medium compact	85	1.3	VD	17
1027.8 + 5334	compact	79	0.9	ED	16
1028.3 + 5340	medium compact	112	3.5	MD	15
1028.4 + 5228	medium compact	111	1.7	ED	33
1028.9 + 5042	medium compact	110	1.8	ED	32
1029.2 + 5420	open	60	2.1	D	21
1029.3 + 5736	medium compact	210	12.0	Near	40
1030.0 + 5300	medium compact	84	2.2	D	14
1031.5 + 5335	medium compact	98	1.4	VD	13
1032.6 + 5015	medium compact	87	1.7	VD	8
1034.4 + 5416	medium compact	117	2.7	D	11
1034.5 + 5254	open	180	4.3	D	12
1035.3 + 5013	medium compact	108	5.5	Near	39

Average number of galaxies per cluster = 128.2

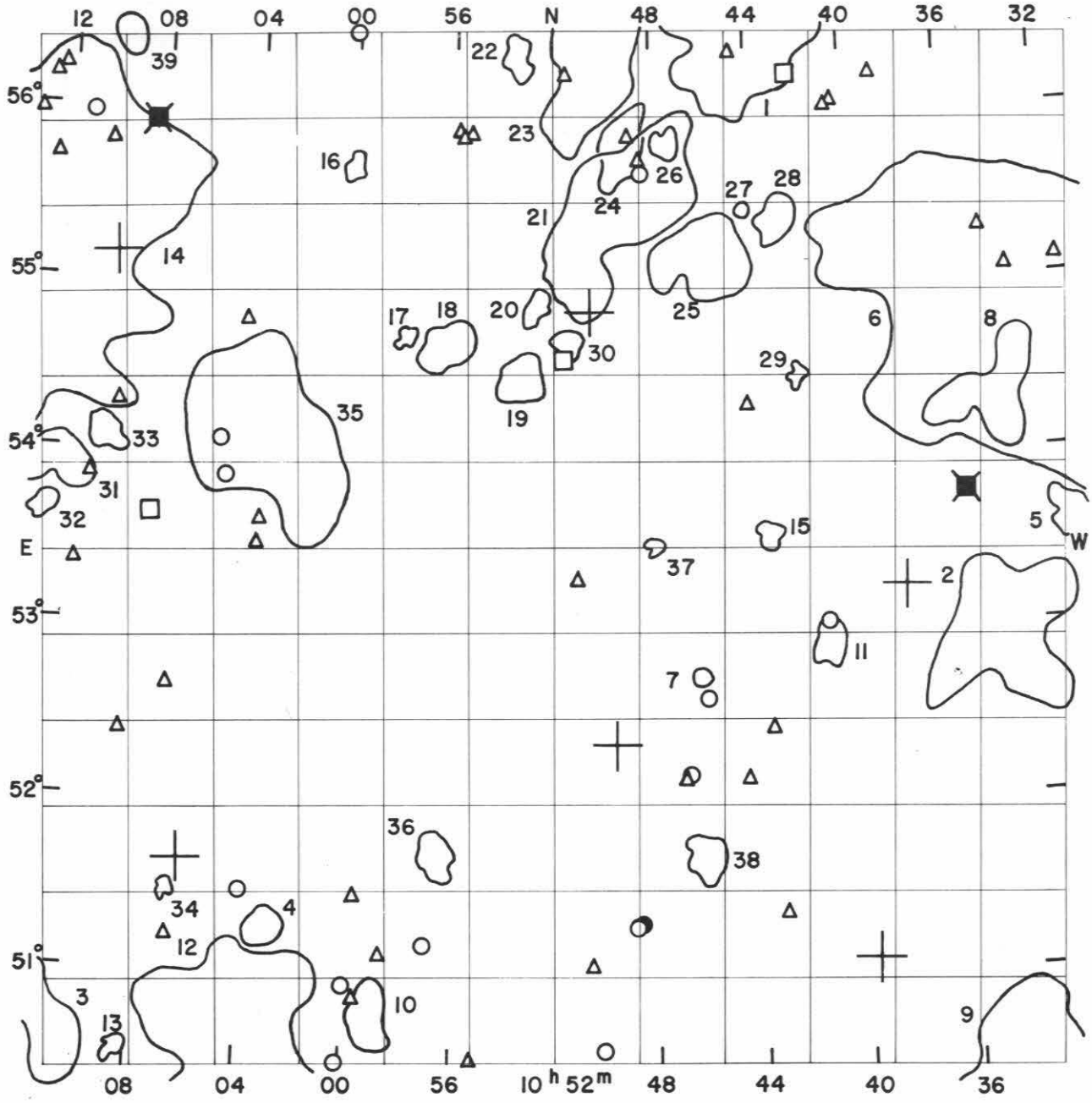
GALAXIES

Position α 1950 h m	Position δ 1950 o '	NGC IC*	m_p	V_s km/sec	Remarks
9 54.5	+ 52 05		15.1		
9 55.9	+ 51 15		15.2		
9 56.0	+ 52 30		14.9		compact
9 56.9	+ 54 47		14.9		
9 57.3	+ 53 16		15.4		compact
9 57.4	+ 55 51	3073	13.8		
9 57.8	+ 55 57		14.6		
9 58.5	+ 55 55	3079	11.2	+ 1171	m_H = 11.9 Sc

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
9 58.6	+ 53 30		14.8		
9 59.5	+ 51 46		15.3		very compact
9 59.6	+ 55 04		15.7		compact
10 00.0	+ 54 10		15.6		
10 00.6	+ 54 57		15.6		
10 00.9	+ 56 06		15.7		compact
10 01.0	+ 53 38		15.7		
10 01.2	+ 51 10		15.6		
10 01.2	+ 53 41		15.3		
10 01.5	+ 54 48		15.4		compact
10 02.0	+ 51 52		15.7		
10 02.0	+ 53 24		15.3		
10 02.6	+ 55 30		15.7		
10 02.8	+ 52 25		15.0		
10 02.9	+ 50 30		15.7		
10 04.8	+ 53 20		13.8		
10 04.9	+ 52 06		13.9		
10 06.7	+ 54 55		15.6		
10 06.8	+ 54 33		15.5		compact
10 06.8	+ 54 44		14.8		
10 06.9	+ 54 44		15.7		quadruple system
10 07.5	+ 54 28		15.4		very compact
10 12.4	+ 55 55		14.6		
10 13.1	+ 54 44		15.5		
10 13.8	+ 55 04		15.2		
10 14.0	+ 53 43		15.3		
10 14.1	+ 54 03		15.7		
10 16.5	+ 54 28		15.6		extremely compact
10 16.6	+ 55 40		15.3		
10 16.8	+ 54 13		15.5		
10 17.2	+ 54 07		15.2		compact
10 19.7	+ 56 09		15.7		diffuse spiral
10 20.4	+ 52 36		15.0		
10 20.6	+ 53 21		14.2		double system in contact
10 22.0	+ 52 19		15.3		
10 22.1	+ 55 46		15.1		double system
10 24.0	+ 52 14		15.4		very compact
10 25.3	+ 54 07		14.9		
10 25.9	+ 54 58		14.8		
10 26.1	+ 55 26		14.6		
10 26.7	+ 50 42		15.4		double system
10 26.7	+ 52 04		15.3		
10 26.9	+ 51 06		15.5		
10 27.1	+ 52 49		15.6		
10 27.5	+ 53 46		15.6		
10 29.2	+ 56 19	3264	14.3		
10 29.4	+ 54 38		13.2		
10 30.3	+ 50 58		15.5		
10 30.5	+ 53 52		15.5		
10 30.6	+ 52 37		14.9		
10 31.1	+ 53 07		14.0		
10 31.5	+ 55 05		15.7		
10 31.7	+ 51 01		15.7		very diffuse spiral
10 33.6	+ 55 02		15.5		double system in halo
10 34.6	+ 55 16		15.4		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3079	-	-	-	-	-	Sc	11.10	Sc-



FIELD No. 267

10^h52^m $+53^\circ30'$

Survey Plate No. 673

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
14681	10 38 13.8	+ 53 13 56	7.10
14719	10 39 50.8	+ 51 03 40	7.20
14941	10 49 40.4	+ 52 20 15	6.93
14962	10 50 33.5	+ 54 51 05	5.36
15327	11 06 24.0	+ 51 39 00	7.12
15399	11 09 50.6	+ 55 09 59	6.48

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1012.8 + 5337	open	685	28.3	Near	6
1031.5 + 5335	medium compact	98	1.4	VD	5
1034.4 + 5416	medium compact	117	2.7	D	8
1034.5 + 5254	open	180	4.3	D	2
1035.3 + 5013	medium compact	108	5.5	Near	9
1041.2 + 5253	medium compact	74	1.2	VD	11
1042.1 + 5426	medium compact	49	0.6	ED	29
1042.8 + 5521	medium compact	84	1.3	ED	28
1043.4 + 5332	compact	58	0.8	ED	15
1043.9 + 5635	open	74	5.5	Near	1
1044.2 + 5525	medium compact	42	0.4	ED	27
1045.8 + 5508	medium compact	193	2.9	VD	25
1046.1 + 5140	medium compact	69	1.3	VD	38
1046.2 + 5243	compact	35	0.5	ED	7
1047.3 + 5549	medium compact	58	0.9	ED	26
1048.0 + 5329	compact	48	0.5	ED	37
1049.1 + 5547	medium compact	131	1.8	ED	24
1049.4 + 5525	medium compact	160	4.5	MD	21
1050.2 + 5618	open	151	3.8	MD	23
1051.4 + 5440	medium compact	59	0.9	ED	30
1052.7 + 5453	compact	68	0.9	ED	20
1053.4 + 5427	medium compact	82	1.5	ED	19
1053.4 + 5618	medium compact	57	1.1	ED	22
1056.2 + 5439	compact	107	1.6	ED	18
1056.5 + 5141	medium compact	90	1.3	ED	36
1057.9 + 5442	compact	54	0.6	ED	17
1059.0 + 5044	compact	126	1.6	D	10
1100.0 + 5541	compact	58	0.7	ED	16
1103.0 + 5115	open	70	1.1	ED	4
1103.4 + 5405	open	131	5.1	D	35
1103.5 + 5029	open	176	6.5	MD	12
1106.7 + 5128	compact	45	0.5	ED	34
1108.4 + 5032	compact	56	0.6	ED	13
1109.7 + 5625	compact	55	1.1	ED	39
1109.9 + 5405	compact	90	1.1	VD	33
1111.0 + 5037	medium compact	82	2.8	D	3
1112.0 + 5355	medium compact	63	2.0	D	31
1112.2 + 5339	medium compact	70	0.8	ED	32
1114.3 + 5457	medium compact	245	11.2	Near	14

Average number of galaxies per cluster = 107.6

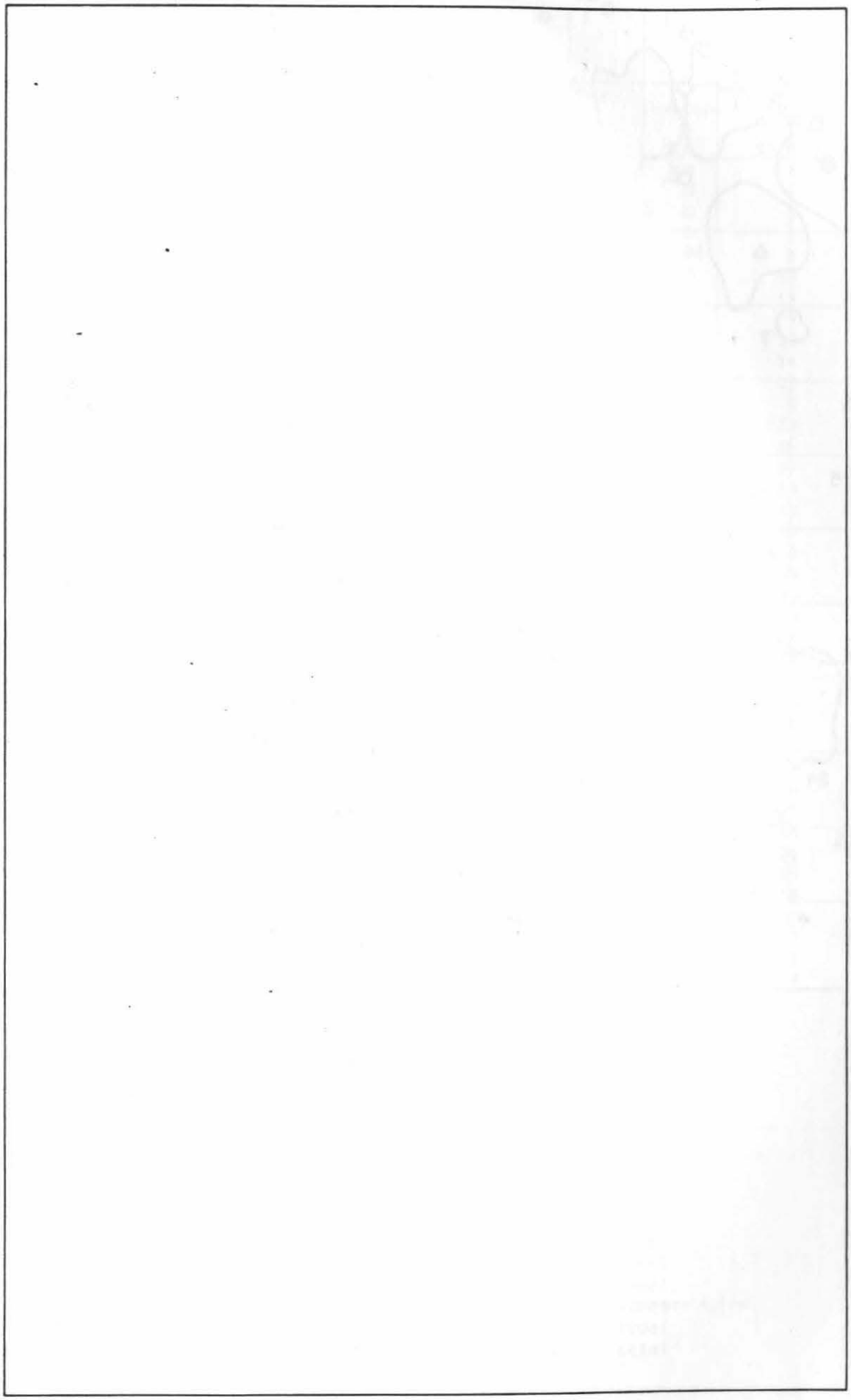
GALAXIES

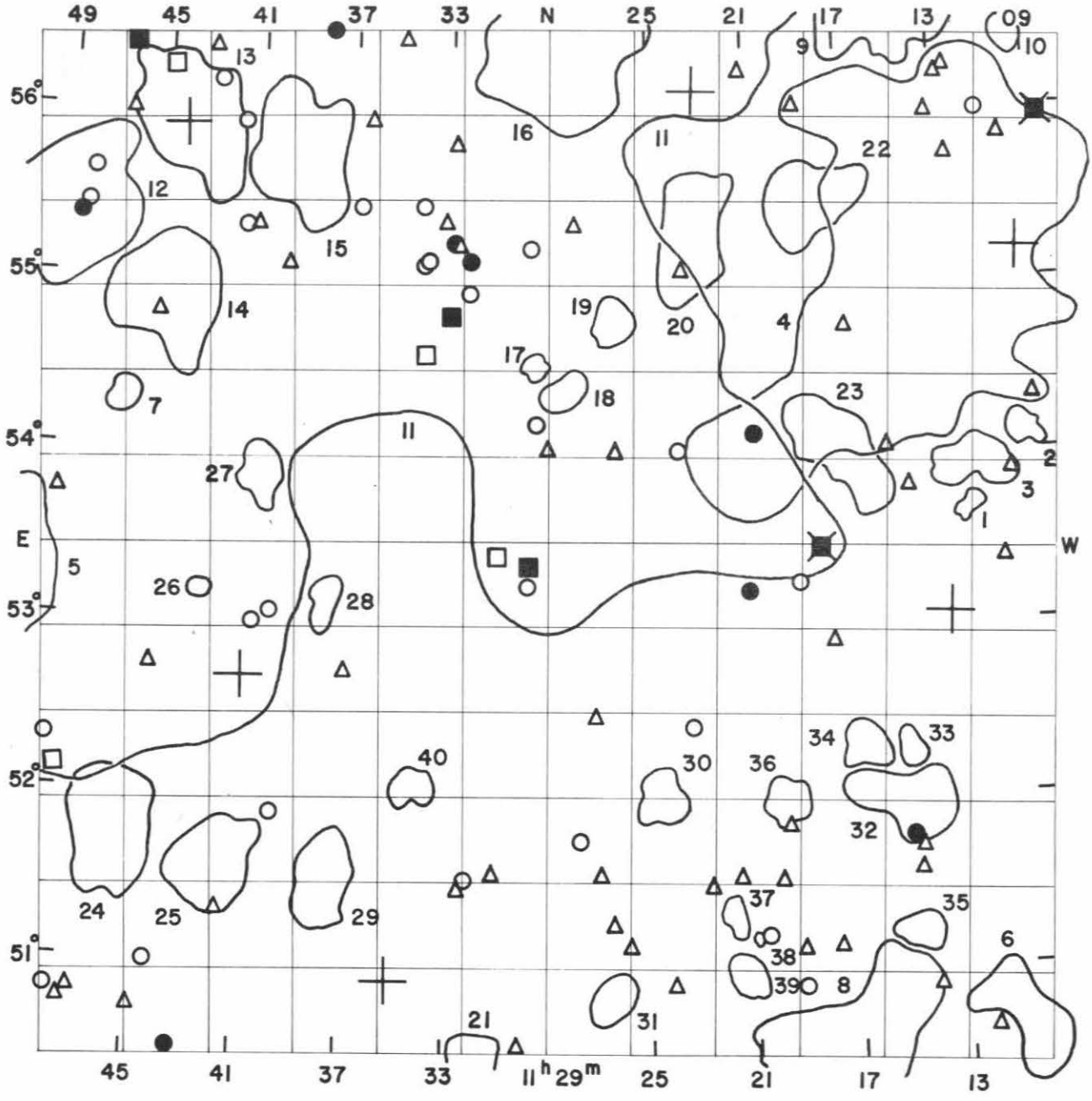
Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
10 31.5	+ 55 05		15.7		
10 33.6	+ 55 02		15.5		double system in halo
10 34.6	+ 55 16		15.4		
10 35.7	+ 53 45	3310	11.0	+ 1019	m_H = 10.9 Sb
10 38.7	+ 56 12		15.5		
10 40.4	+ 56 02		15.3		
10 40.7	+ 56 00		15.2		
10 41.2	+ 53 01		14.6		
10 42.2	+ 56 13	3353	12.9		m_H = 13.0

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
10 43.3	+ 51 21		15.1		
10 43.6	+ 52 25		15.7		
10 44.2	+ 54 18		15.6		diffuse spiral
10 44.5	+ 52 08		15.5		
10 44.6	+ 56 20		15.2		
10 46.1	+ 52 36		14.6		
10 46.8	+ 52 10		15.0		
10 47.0	+ 52 09		15.6		compact
10 48.4	+ 55 39	644*	14.4		
10 48.5	+ 55 44	646*	15.7		
10 48.8	+ 51 18	3406	13.7		double system, halo + plumes
10 48.9	+ 51 17	3410	14.8		
10 49.0	+ 55 52	3398	15.3		
10 50.2	+ 50 34		14.5		
10 50.7	+ 51 03		15.5		
10 51.1	+ 53 18		15.4		
10 51.5	+ 56 13		15.7		
10 51.6	+ 54 35	3448	12.2		m_H = 12.6 Sc
10 55.2	+ 50 29		15.6		
10 55.3	+ 55 53		15.7		
10 55.7	+ 55 52		15.7		
10 55.8	+ 55 54		15.7		
10 57.1	+ 51 12		14.3		
10 58.8	+ 51 07		15.6		
10 59.6	+ 50 52		15.3		
10 59.7	+ 51 28		15.6		
11 00.0	+ 50 57		14.5		double system
11 00.0	+ 56 29	3499	14.3		
11 00.2	+ 50 29		14.5		
11 03.7	+ 53 39		15.3		
11 03.8	+ 53 30		15.7		
11 04.0	+ 51 30		14.2		
11 04.5	+ 54 47		15.5		
11 05.1	+ 53 54		14.1		
11 05.4	+ 54 06		14.7		
11 06.8	+ 51 13		15.4		
11 07.1	+ 52 40		15.5		
11 08.0	+ 53 40	3549	12.8		m_H = 12.8 Sc
11 08.5	+ 55 56	3556	10.7	+ 643	m_H = 11.0 Sb
11 08.9	+ 52 24		15.5		
11 09.4	+ 54 18		15.4		
11 10.3	+ 55 50		15.7		
11 10.5	+ 53 52		15.7		extremely diffuse spiral
11 11.0	+ 53 22		15.6		
11 11.2	+ 55 59		14.9		
11 12.4	+ 56 14		15.1		
11 12.6	+ 55 44		15.4		
11 12.8	+ 56 11		15.6		
11 13.3	+ 55 58	3594	15.2		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3310	-	-	11.22	Sb	10.8	Sb	-	-
3556	-	-	10.63	Sc	10.4	Sc	10.57	Sc+





FIELD No. 268

11^h29^m $+53^\circ30'$

Survey Plate No. 59

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
15399	11 09 50.6	+ 55 09 59	6.48
15485	11 13 12.0	+ 53 02 42	6.34
15686	11 23 08.6	+ 56 07 29	5.85
15947	11 35 11.2	+ 50 53 43	5.99
16091	11 41 07.2	+ 52 40 21	7.30
16153	11 44 15.6	+ 55 54 23	5.41

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1109.7 + 5625	compact	55	1.1	ED	10
1109.9 + 5405	compact	90	1.1	VD	2
1111.0 + 5037	medium compact	82	2.8	D	6
1112.0 + 5355	medium compact	63	2.0	D	3
1112.2 + 5339	medium compact	70	0.8	ED	1
1114.3 + 5457	medium compact	245	11.2	Near	4
1114.8 + 5111	compact	88	1.3	ED	35
1114.9 + 5215	medium compact	68	1.0	ED	33
1114.9 + 5637	medium compact	355	3.8	D	9
1115.0 + 5157	medium compact	99	2.7	D	32
1116.6 + 5216	medium compact	73	1.5	ED	34
1117.2 + 5400	medium compact	89	3.0	MD	23
1117.6 + 5033	medium compact	203	4.8	MD	8
1118.3 + 5528	medium compact	91	2.8	D	22
1119.8 + 5158	compact	62	1.4	ED	36
1121.0 + 5110	compact	33	0.3	ED	38
1121.4 + 5056	medium compact	74	1.3	ED	39
1121.8 + 5118	compact	73	1.0	ED	37
1123.1 + 5516	medium compact	78	3.1	D	20
1124.5 + 5200	compact	62	1.5	ED	30
1126.4 + 5445	compact	80	1.3	ED	19
1126.5 + 5048	compact	66	1.4	ED	31
1128.4 + 5422	compact	66	1.3	ED	18
1128.4 + 5618	compact	178	4.6	MD	16
1129.6 + 5430	compact	59	0.8	ED	17
1131.7 + 5028	compact	106	1.6	ED	21
1134.3 + 5202	medium compact	73	1.2	ED	40
1137.5 + 5128	medium compact	125	2.4	ED	29
1137.8 + 5306	compact	80	1.2	ED	28
1138.7 + 5650	medium compact	2690	49.2	Near	11 *
1139.3 + 5544	compact	148	3.8	D	15
1140.5 + 5351	medium compact	90	1.6	ED	27
1141.9 + 5133	compact	136	2.9	VD	25
1142.9 + 5310	compact	43	0.6	ED	26
1144.0 + 5555	compact	144	4.0	Near	13
1144.6 + 5452	compact	89	3.8	Near	14
1145.7 + 5144	compact	195	3.5	D	24
1146.3 + 5416	medium compact	44	1.0	ED	7
1148.6 + 5523	medium compact	121	4.5	MD	12
1151.7 + 5302	medium compact	110	5.6	MD	5

Average number of galaxies per cluster = 167.4

*) see special map on page 387

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
11 08.5	+ 55 56	3556	10.7	+ 643	m_H = 11.0 Sb
11 09.4	+ 54 18		15.4		
11 10.3	+ 55 50		15.7		
11 10.5	+ 53 52		15.7		extremely diffuse spiral
11 11.0	+ 53 22		15.6		
11 11.2	+ 55 59		14.9		

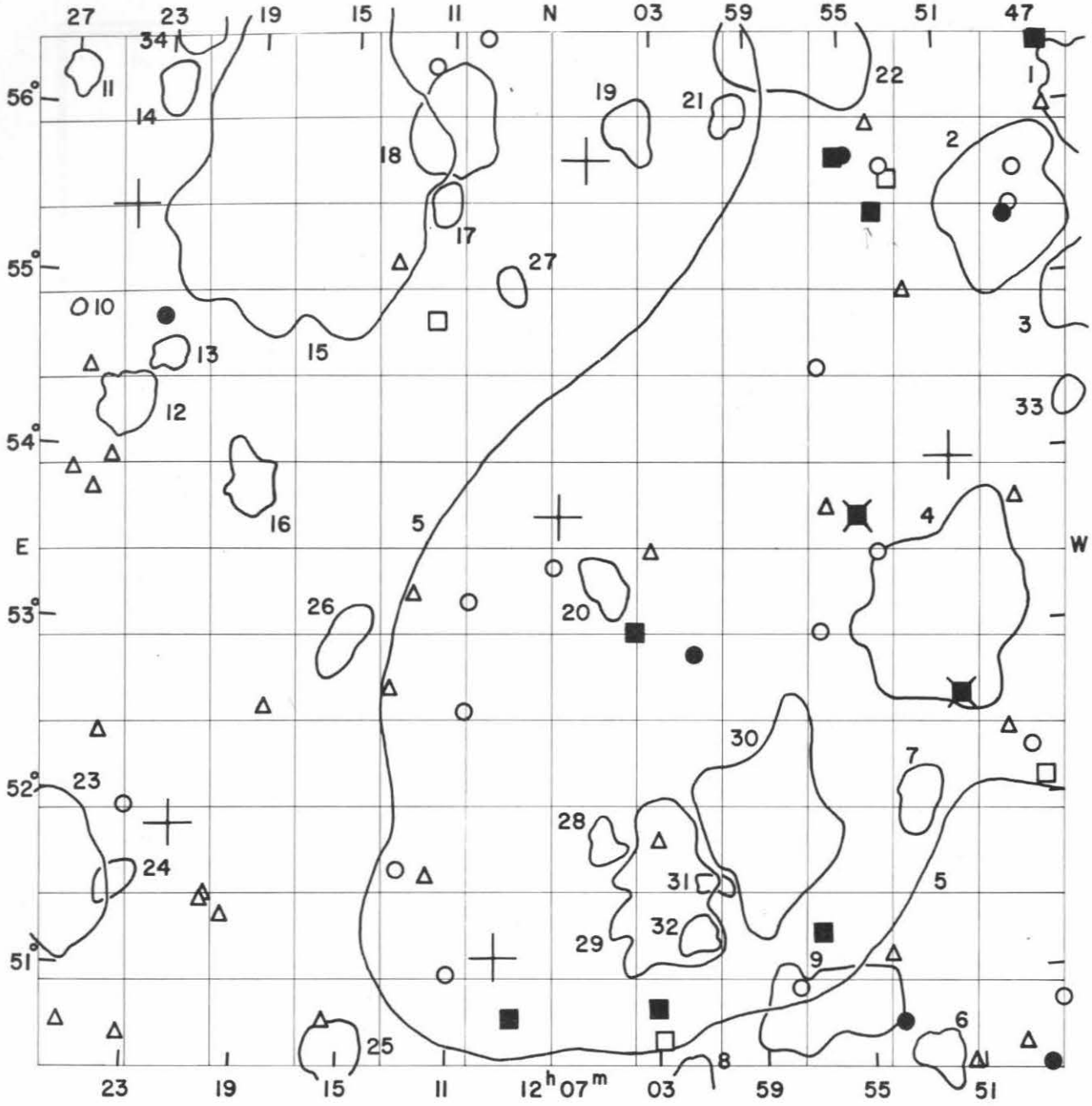
Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
11 12.1	+ 50 38		15.7		
11 12.4	+ 56 14		15.1		
11 12.6	+ 55 44		15.4		
11 12.8	+ 56 11		15.6		
11 13.3	+ 55 58	3594	15.2		
11 14.2	+ 50 53		15.4		
11 14.6	+ 51 41		15.6		compact
11 14.6	+ 53 48		15.3		compact
11 14.7	+ 51 33		15.2		compact
11 15.0	+ 51 46		13.7		SBb + outer loop
11 15.4	+ 54 02		15.2		double system, connected
11 17.0	+ 54 44		15.4		diffuse spiral
11 17.8	+ 51 07		15.5		compact
11 17.8	+ 52 54		15.7		
11 18.2	+ 53 27	3631	11.0	+ 1087	m_H = 11.8 Sc
11 18.9	+ 56 01		15.7		
11 19.1	+ 53 15		14.9		compact
11 19.2	+ 50 53		14.7		
11 19.2	+ 51 06		15.5		
11 19.7	+ 51 49		15.5		compact
11 20.0	+ 51 30		15.5		
11 20.6	+ 51 12		14.9		
11 20.8	+ 54 07	3656	13.4		large plume, loop
11 21.1	+ 53 12	3657	13.1		very compact
11 21.1	+ 56 14		15.4		compact
11 21.6	+ 51 32		15.1		
11 22.7	+ 51 28		15.7		
11 23.4	+ 52 25		15.0		
11 23.6	+ 55 03		15.5		
11 23.8	+ 54 01		14.5		diffuse spiral
11 24.2	+ 50 53		15.6		very compact
11 25.9	+ 51 08		15.1		double system
11 26.4	+ 54 00		15.5		
11 26.5	+ 51 15		15.7		
11 27.0	+ 51 32		15.4		double system
11 27.2	+ 52 28		15.7		
11 27.8	+ 51 45		14.7		
11 28.0	+ 55 20		15.7		
11 29.0	+ 54 01		15.7		
11 29.5	+ 54 11		14.6		
11 29.7	+ 55 12		14.9		
11 29.8	+ 53 21	3718	11.8	+ 1050	m_H = 12.4 SBb
11 29.9	+ 53 14		14.7		quintuple system
11 30.2	+ 50 33	705*	15.1		compact
11 31.1	+ 53 25	3729	12.2		m_H = 13.0
11 31.3	+ 51 33		15.2		very compact
11 32.3	+ 51 31		14.4		
11 32.3	+ 54 56		14.9		
11 32.3	+ 55 08	3733	13.2		
11 32.5	+ 51 27		15.3		compact
11 32.7	+ 55 12		15.4		double system
11 32.8	+ 55 13	3737	13.9		
11 32.8	+ 55 48		15.3		
11 33.0	+ 54 47	3738	11.5		m_H = 12.2 I
11 33.2	+ 55 21		15.5		double system
11 33.9	+ 55 08	2943*	15.0		
11 34.0	+ 54 34	3756	12.1		m_H = 12.5 Sc
11 34.1	+ 55 06	3759	14.3		
11 34.2	+ 55 26		14.5		

Position α 1950 h m	δ ° ′	NGC IC*	m_p	V_s km/sec	Remarks
11 35.0	+ 56 25		15.5		
11 36.4	+ 55 56		15.3		double system
11 36.7	+ 55 26		14.8		
11 37.0	+ 52 43		15.6		
11 38.1	+ 56 28	3804	13.8		
11 39.7	+ 51 53		14.8		
11 39.7	+ 55 05		15.3		
11 40.1	+ 53 04	3824	14.6		
11 40.8	+ 53 00	3829	15.0		
11 41.0	+ 55 19		15.3		
11 41.5	+ 55 18		14.2		
11 41.6	+ 51 18		15.6		
11 41.7	+ 55 55	3846	14.7		
11 42.9	+ 56 09	3850	14.4		
11 43.1	+ 56 20		15.6		
11 43.3	+ 50 30	3870	13.2		
11 44.3	+ 50 59		14.7		
11 44.7	+ 52 44		15.6		compact
11 44.8	+ 50 43		15.6		
11 44.9	+ 56 14	3888	12.6		m_H = 13.0
11 45.0	+ 54 47		15.6		double system
11 46.5	+ 55 58		15.7		double system
11 46.5	+ 56 20	3898	11.7	+ 1038	m_H = 12.0 Sa
11 47.1	+ 50 49		15.4		
11 47.5	+ 50 45		15.7		
11 48.0	+ 50 50		14.8		
11 48.0	+ 55 37	3913=740*	14.2		
11 48.1	+ 52 07	3917	12.5		m_H = 12.8 Sc
11 48.2	+ 55 25	3916	14.8		
11 48.5	+ 55 21	3921	13.4		eccentric nucleus, outer loops
11 48.6	+ 52 17		14.6		
11 48.8	+ 53 43		15.5		very diffuse spiral

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3556	-	-	10.63	Sc	10.4	Sc	10.57	Sc+
3631	10.6	Sc	-	-	-	Sc	10.91	Sc-
3656	12.4	-	-	-	-	-	-	-
3657	12.5	-	-	-	-	-	-	-
3718	11.8	-	-	-	-	S0p	11.24	S0p
3729	11.7	-	-	-	-	-	11.88	Sc-
3733	11.5	-	-	-	-	-	-	-
3738	11.4	Irr.	-	-	-	-	12.00	Ir.I
3756	11.8	Sc	-	-	-	-	12.05	Sc-
3804	12.5	-	-	-	-	-	-	-
3829	13.1	-	-	-	-	-	-	-
3846	13.7	-	-	-	-	-	-	-
3888	12.7	-	-	-	-	-	-	-
3898	11.0	Sa	-	-	11.7	Sa	-	-
3917	11.9	-	-	-	-	-	-	-
3921	13.45*	-	-	-	-	-	-	-

*) Listed under NGC 3916 by mistake.



FIELD No. 269

12^h07^m $+53^\circ30'$

Survey Plate No. 1389

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ′ ″	
16268	11 51 12.6	+ 53 58 22	2.54
16580	12 05 37.2	+ 55 44 33	7.96
16600	12 06 49.6	+ 53 40 27	7.55
16656	12 09 11.9	+ 51 06 55	8.1
16906	12 21 36.1	+ 51 50 20	4.97
16958	12 24 09.5	+ 55 26 10	7.04

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1138.7 + 5650	medium compact	2690	49.2	Near	5 *
1144.0 + 5555	compact	144	4.0	Near	1
1144.6 + 5452	compact	89	3.8	Near	3
1146.3 + 5416	medium compact	44	1.0	ED	33
1148.6 + 5523	medium compact	121	4.5	MD	2
1151.7 + 5302	medium compact	110	5.6	MD	4
1152.6 + 5030	medium compact	93	1.5	ED	6
1153.0 + 5200	medium compact	58	1.6	ED	7
1156.6 + 5049	medium compact	97	3.4	VD	9
1156.8 + 5627	compact	172	4.7	Near	22
1158.7 + 5153	medium compact	127	4.9	MD	30
1159.7 + 5559	compact	65	1.1	ED	21
1200.9 + 5131	compact	60	0.8	ED	31
1201.4 + 5115	compact	80	1.1	ED	32
1201.7 + 5022	medium compact	104	1.5	VD	8
1202.6 + 5127	medium compact	103	4.1	D	29
1203.9 + 5555	compact	95	1.6	ED	19
1205.0 + 5146	compact	56	1.1	ED	28
1205.0 + 5316	compact	59	1.5	VD	20
1208.6 + 5500	medium compact	58	1.0	ED	27
1211.0 + 5556	open	81	3.1	D	18
1211.4 + 5529	medium compact	53	1.1	ED	17
1215.0 + 5257	medium compact	69	1.6	ED	26
1215.1 + 5033	medium compact	94	2.1	ED	25
1216.7 + 5542	medium compact	217	9.3	Near	15
1218.9 + 5350	compact	79	1.8	VD	16
1222.0 + 5632	medium compact	144	1.6	VD	34
1222.5 + 5433	medium compact	75	1.1	ED	13
1222.7 + 5607	compact	77	1.3	ED	14
1223.5 + 5130	compact	61	1.3	ED	24
1224.0 + 5415	medium compact	63	1.9	ED	12
1226.2 + 5447	compact	40	0.4	ED	10
1226.6 + 5136	compact	122	4.9	D	23
1226.8 + 5611	medium compact	71	1.1	ED	11

Average number of galaxies per cluster = 166.8

*) see special map on page 387

GALAXIES

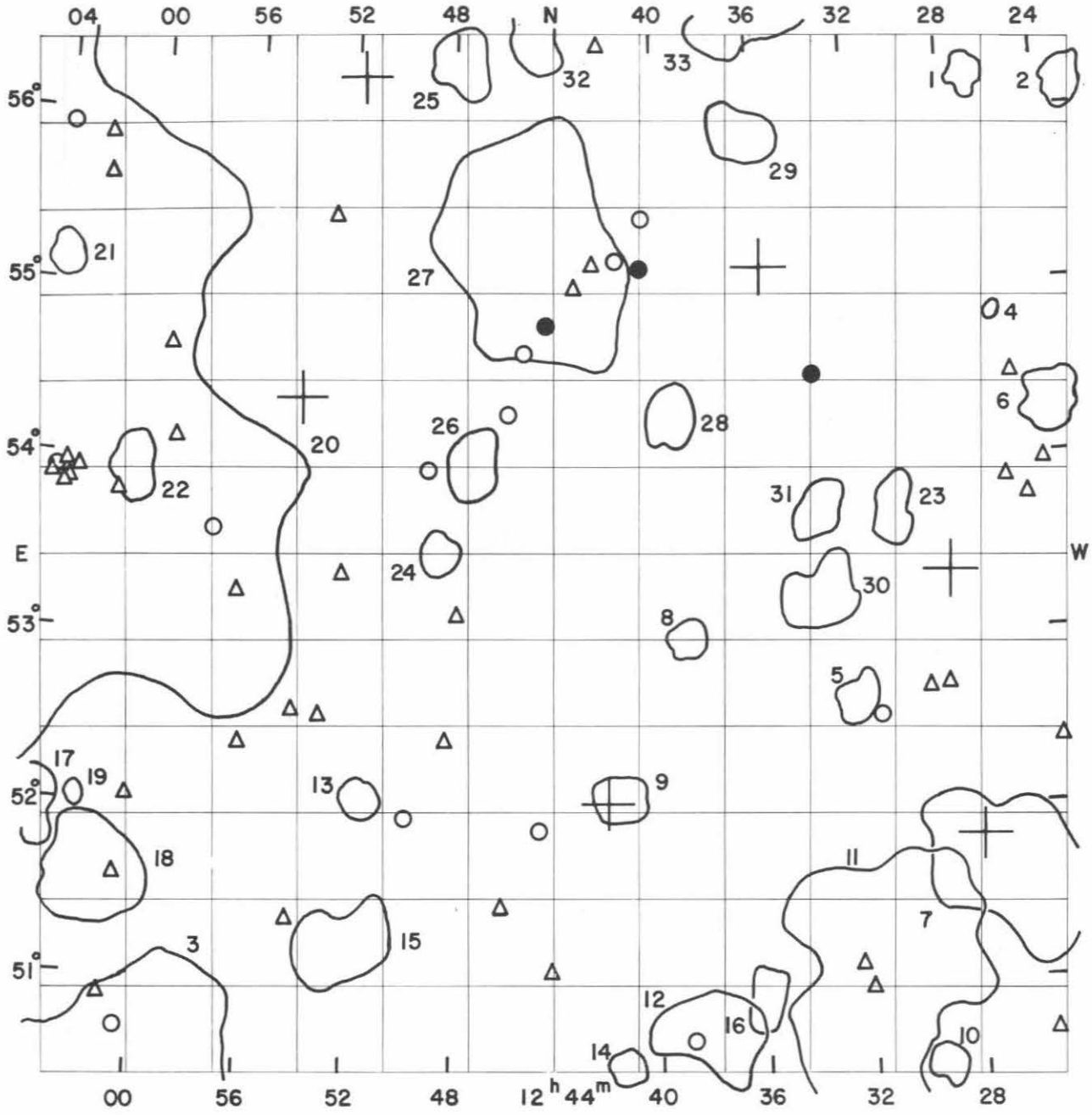
Position α 1950 h m	Position δ ° ′	NGC IC*	m_p	V_s km/sec	Remarks
11 46.5	+ 55 58		15.7		double system
11 46.5	+ 56 20	3898	11.7	+ 1038	m_H = 12.0 Sa
11 48.0	+ 50 50		14.8		
11 48.0	+ 55 37	3913=740*	14.2		
11 48.1	+ 52 07	3917	12.5		m_H = 12.8 Sc
11 48.2	+ 55 25	3916	14.8		
11 48.5	+ 55 21	3921	13.4		eccentric nucleus, outer loops
11 48.6	+ 50 27	3922	13.8		
11 48.6	+ 52 17		14.6		
11 48.8	+ 53 43		15.5		very diffuse spiral
11 49.4	+ 50 35		15.5		
11 49.5	+ 52 23		15.6		

Position α 1950 h m	δ o '	NGC IC*	m_p	V_s km/sec	Remarks
11 51.1	+ 52 36	3953	10.8	+ 973	m_H = 11.5 Sc
11 51.3	+ 50 29		15.6		
11 52.8	+ 54 56		15.6		
11 53.1	+ 55 35	3972	12.9		
11 53.5	+ 55 40	3977=3980	14.7		faint outer ring
11 53.9	+ 50 43		14.0		diffuse spiral
11 53.9	+ 55 23	3982	11.6		m_H = 11.8 Sc
11 54.0	+ 55 54		15.4		
11 54.2	+ 51 07		15.4		very diffuse spiral
11 54.2	+ 53 27		14.1		
11 55.0	+ 53 39	3992	10.7	+ 1059	m_H = 11.2 SBc
11 55.0	+ 55 43	3990	13.6	+ 720	
11 55.3	+ 55 43	3998	11.2	+ 1084	m_H = 11.6 Ep
11 56.1	+ 53 42		15.5		
11 56.4	+ 54 30		14.7		
11 56.6	+ 52 59		14.5		
11 56.8	+ 51 15	4026	11.5	+ 878	m_H = 12.0 SBa
11 57.7	+ 50 57		14.9		
12 01.5	+ 52 52	4068	13.3		
12 02.8	+ 50 39	4085	12.8		m_H = 12.8 Sb
12 03.0	+ 50 50	4088	11.2	+ 739	m_H = 11.2 Sc
12 03.0	+ 51 48		15.3		
12 03.1	+ 53 28		15.7		
12 03.8	+ 53 00	4102	11.8	+ 893	m_H = 12.1 SBb
12 07.0	+ 53 24	4142	14.3		
12 08.6	+ 50 47	4157	11.9		m_H = 12.0 Sc
12 09.8	+ 56 27	4172	14.4		
12 10.4	+ 52 33		15.0		
12 10.4	+ 53 11	4181	15.0		
12 11.0	+ 51 02	4187	14.5		
12 11.6	+ 54 48	4194	13.0	+ 2585	broken ring, large plume
12 11.8	+ 51 36		15.1		
12 11.9	+ 56 17	4198	14.6		
12 12.5	+ 53 14		15.7		
12 12.9	+ 51 39		14.6		
12 13.2	+ 55 08		15.5		
12 13.3	+ 52 40		15.3		diffuse
12 15.5	+ 50 45		15.7		very compact
12 18.1	+ 52 32		15.6		
12 19.4	+ 51 20		15.7		diffuse spiral
12 20.1	+ 51 27		15.7		
12 20.3	+ 51 26		15.6		
12 22.8	+ 54 47	4384	13.5		
12 23.1	+ 50 37		15.4		
12 23.3	+ 51 57		14.9		
12 24.5	+ 52 21		15.4		
12 24.5	+ 53 58		15.7		
12 25.3	+ 53 47		15.7		
12 25.4	+ 50 41		15.6		
12 25.6	+ 54 28		15.5		
12 26.1	+ 53 53		15.2		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
3898	10.10	Sa	-	-	11.7	Sa	-	-
3917	11.9	-	-	-	-	-	-	-
3921	13.45*	-	-	-	-	-	-	-
3953	10.3	Sc	10.87	Sb	10.7	SBb	10.71	Sb+
3972	12.9	-	-	-	-	-	-	-
3982	11.6	Sc	-	-	-	-	-	-
3990	-	-	-	-	13.6	S0	-	-
3992	10.3	SBc	-	-	10.5	SBb	10.62	Sb+
3998	11.4	Ep	-	-	11.2	S0	-	-
4026	11.7	-	-	-	11.7	S0	-	-
4085	11.9	-	-	-	-	-	12.79	Sc-
4088	11.3	Sc	-	-	-	Sc	11.03	Sc-
4102	11.9	SBb	-	-	12.3	Sa	-	-
4157	11.4	-	-	-	-	-	-	-
4194	-	-	-	-	-	SB0p	-	-

*) Listed under NGC 3916 by mistake.



FIELD No. 270

12^h44^m $+53^o30'$

Survey Plate No. 729

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
17040	12 27 41.3	+ 51 48 40	6.25
17053	12 28 27.8	+ 53 21 00	6.23
17204	12 35 38.1	+ 55 07 40	7.09
17326	12 41 58.8	+ 52 02 06	6.98
17518	12 51 50.1	+ 56 13 51	1.68
17567	12 54 06.4	+ 54 22 11	6.01

CLUSTERS OF GALAXIES

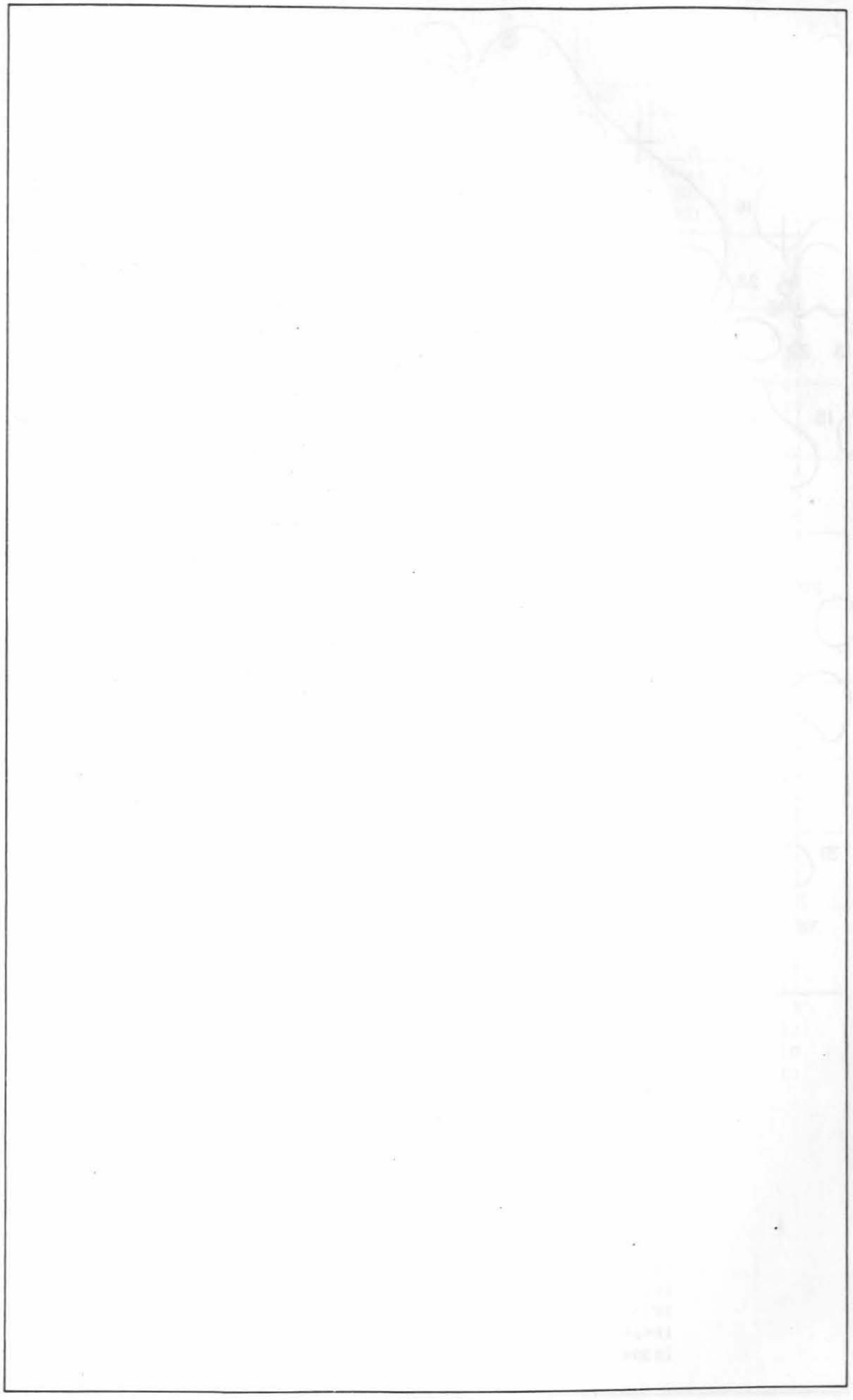
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1222.7 + 5607	compact	77	1.3	ED	2
1224.0 + 5415	medium compact	63	1.9	ED	6
1226.2 + 5447	compact	40	0.4	ED	4
1226.6 + 5136	compact	122	4.9	D	7
1226.8 + 5611	medium compact	71	1.1	ED	1
1229.6 + 5029	compact	62	1.2	ED	10
1230.6 + 5342	compact	128	1.6	ED	23
1231.4 + 5044	medium compact	293	7.8	Near	11
1232.2 + 5237	compact	96	1.4	ED	5
1233.5 + 5344	medium compact	145	1.6	ED	31
1233.6 + 5313	medium compact	160	2.2	ED	30
1235.8 + 5639	medium compact	150	3.0	D	33
1236.0 + 5054	compact	86	1.5	VD	16
1236.3 + 5553	compact	140	2.0	ED	29
1238.0 + 5043	medium compact	122	3.1	VD	12
1238.8 + 5259	compact	58	1.1	ED	8
1239.4 + 5416	medium compact	92	1.8	ED	28
1241.3 + 5030	compact	54	1.1	ED	14
1241.5 + 5205	compact	106	1.6	ED	9
1244.8 + 5630	open	137	2.0	D	32
1244.9 + 5514	medium compact	177	6.6	MD	27
1247.2 + 5400	open	103	2.0	ED	26
1247.9 + 5619	medium compact	91	1.9	VD	25
1248.5 + 5329	compact	60	1.3	ED	24
1251.5 + 5204	compact	73	1.1	ED	13
1252.0 + 5112	medium compact	79	2.8	D	15
1300.6 + 5355	compact	83	1.6	ED	22
1301.5 + 5135	medium compact	133	3.3	D	18
1301.9 + 5001	open	235	11.6	Near	3
1302.3 + 5201	compact	48	0.6	ED	19
1303.9 + 5156	compact	132	2.0	ED	17
1303.9 + 5507	medium compact	64	1.1	ED	21
1313.0 + 5410	medium compact	623	27.3	Near	20

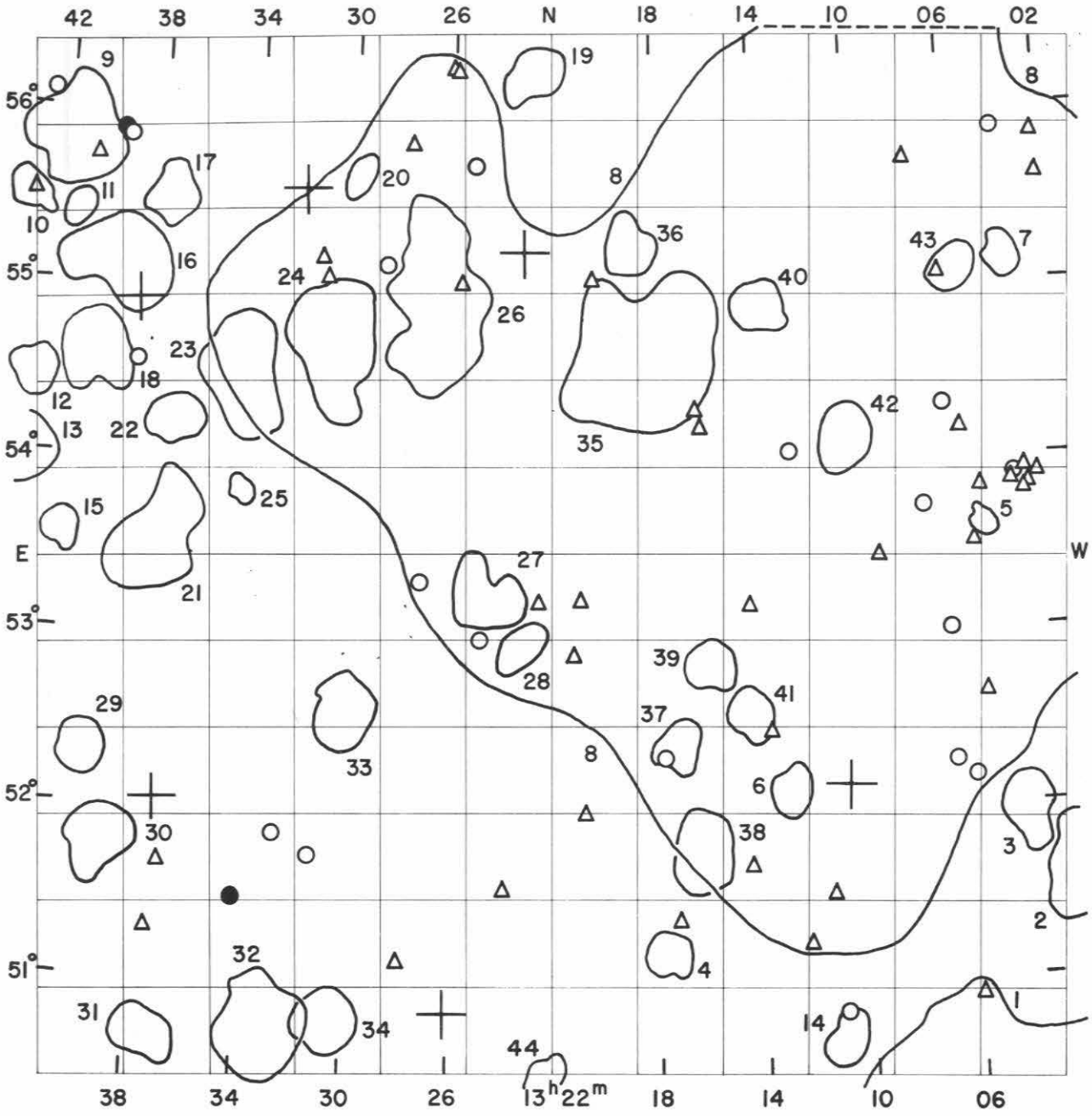
Average number of galaxies per cluster = 124.3

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
12 24.5	+ 52 21		15.4		
12 24.5	+ 53 58		15.7		
12 25.3	+ 53 47		15.7		
12 25.4	+ 50 41		15.6		
12 25.6	+ 54 28		15.5		
12 26.1	+ 53 53		15.2		
12 28.7	+ 52 42		15.7		
12 29.5	+ 52 41		15.4		
12 31.4	+ 52 32	801*	14.8		
12 32.0	+ 50 58		15.7		very compact
12 32.4	+ 51 06	4542	15.5		
12 33.6	+ 54 30	4566	13.9		
12 38.8	+ 50 42	4617	14.2		
12 40.4	+ 55 25	4644	14.8		double system
12 40.6	+ 55 07	4646	13.8		

Position α 1950 δ		NGC IC*	m_p	V_s km/sec	Remarks
h m	o '				
12 41.5	+ 55 10		14.1		double system, tidal effects
12 42.3	+ 56 25		15.3		
12 42.5	+ 55 09	4669	15.1		
12 43.3	+ 55 00	4675	15.4		
12 44.1	+ 51 05		15.5		
12 44.4	+ 54 49	4686	13.7		
12 44.6	+ 51 55		14.1		
12 45.3	+ 54 39	4695	14.5		
12 46.0	+ 54 18		14.9		
12 46.1	+ 51 27	4707	15.2		very diffuse
12 47.9	+ 53 08	4732	15.2		
12 48.2	+ 52 24		15.3		
12 49.0	+ 53 58	830*	14.3		
12 49.9	+ 51 58		14.3		
12 52.4	+ 53 22	4801	15.7		
12 53.0	+ 55 25		15.2		
12 53.2	+ 52 32		15.1		
12 54.2	+ 51 22		15.6		
12 54.2	+ 52 34	4834	15.5		
12 56.2	+ 52 22		15.7		
12 56.5	+ 53 15		15.6		
12 57.5	+ 53 37		15.0		
12 59.1	+ 54 08		15.7		
12 59.5	+ 54 39		15.4		
13 00.4	+ 50 43	4932	14.7		
13 00.5	+ 52 03		15.6		double system
13 00.8	+ 51 36	4938	15.3		
13 01.1	+ 50 54		15.6		
13 01.3	+ 53 48		15.6		
13 02.3	+ 55 37		15.4		
13 02.4	+ 55 52		15.6		
13 02.9	+ 53 55		15.4		
13 03.3	+ 53 52		15.3		compact
13 03.4	+ 53 57	847*	15.1		
13 03.5	+ 53 50	4967	15.2		
13 03.8	+ 53 56	4973	14.9		
13 04.0	+ 53 53	4974	15.7		
13 04.0	+ 55 55	4977	14.5		





FIELD No. 271

13^h22^m $+53^o30'$

Survey Plate No. 675

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
17899	13 10 41.5	+ 52 09 52	7.22
18155	13 23 13.5	+ 55 14 53	4.02
18217	13 26 08.9	+ 50 50 42	6.77
18353	13 32 12.1	+ 55 36 15	5.48
18469	13 37 16.7	+ 52 03 26	6.52
18504	13 38 50.6	+ 54 56 03	4.75

CLUSTERS OF GALAXIES

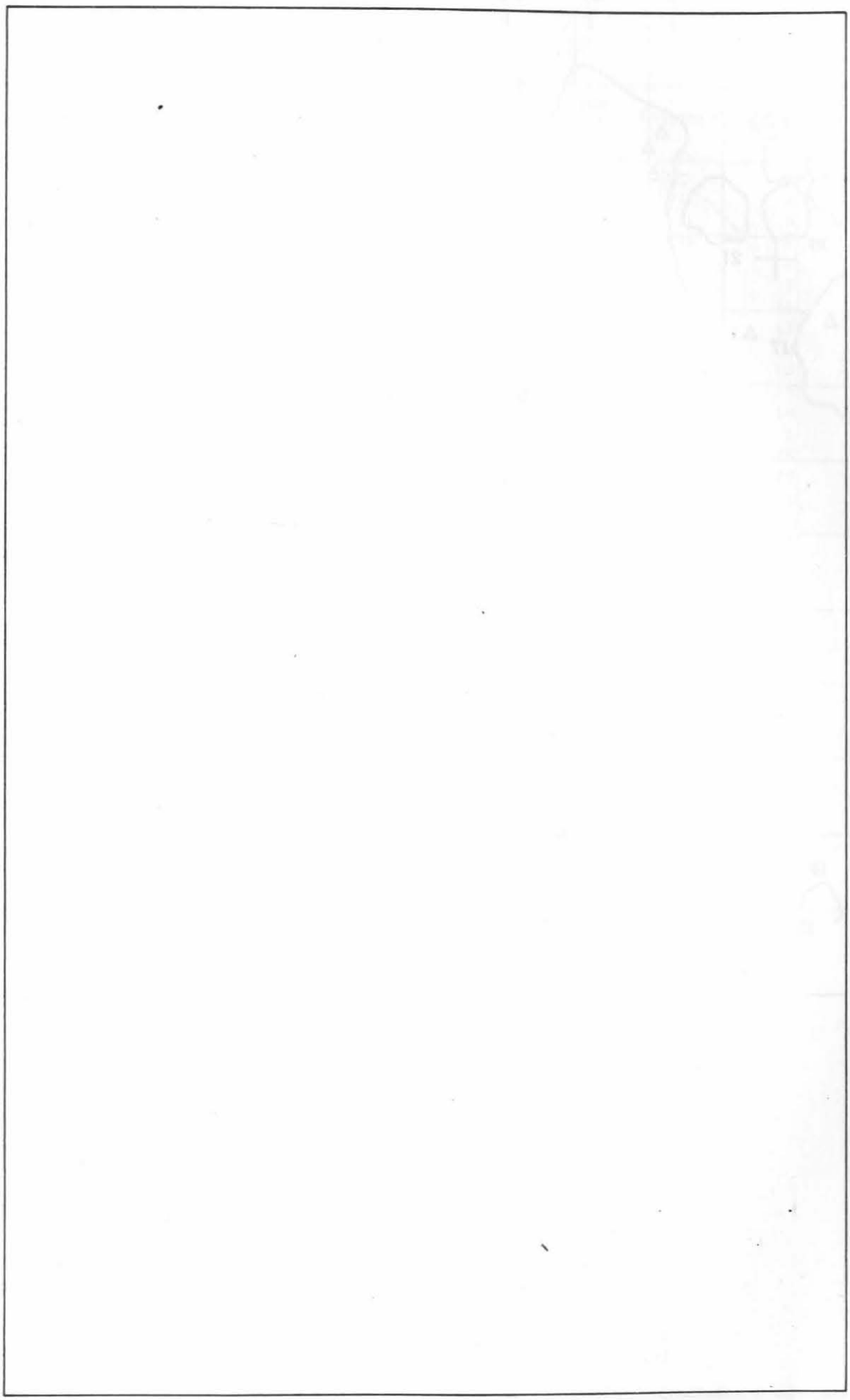
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1301.5 + 5135	medium compact	133	3.3	D	2
1301.9 + 5001	open	235	11.6	Near	1
1303.9 + 5156	compact	132	2.0	ED	3
1303.9 + 5507	medium compact	64	1.1	ED	7
1305.0 + 5336	compact	67	0.8	ED	5
1305.9 + 5505	medium compact	63	1.4	ED	43
1310.3 + 5407	compact	88	1.9	ED	42
1311.0 + 5040	open	80	1.4	ED	14
1312.9 + 5206	compact	144	1.4	ED	6
1313.0 + 5410	medium compact	623	27.3	Near	8
1313.8 + 5453	medium compact	86	1.6	ED	40
1314.3 + 5233	medium compact	96	1.5	ED	41
1315.9 + 5249	medium compact	96	1.5	ED	39
1316.2 + 5146	medium compact	146	2.2	VD	38
1317.1 + 5222	medium compact	115	1.5	VD	37
1317.5 + 5111	medium compact	72	1.4	ED	4
1318.4 + 5436	medium compact	198	4.8	D	35
1318.9 + 5515	compact	141	1.7	ED	36
1322.2 + 5028	medium compact	72	1.2	ED	44
1322.9 + 5615	open	93	1.7	VD	19
1323.2 + 5256	medium compact	118	1.5	ED	28
1324.6 + 5314	medium compact	85	2.2	VD	27
1326.5 + 5454	medium compact	184	4.1	D	26
1329.9 + 5234	medium compact	100	2.2	VD	33
1329.9 + 5539	medium compact	69	1.1	ED	20
1330.4 + 5047	medium compact	208	2.1	ED	34
1330.6 + 5440	medium compact	120	3.4	D	24
1332.8 + 5043	medium compact	110	3.1	MD	32
1334.2 + 5350	compact	48	0.8	ED	25
1334.4 + 5428	medium compact	150	3.1	VD	23
1337.0 + 5413	medium compact	78	1.7	ED	22
1337.2 + 5041	medium compact	109	1.8	VD	31
1337.6 + 5331	open	81	3.1	D	21
1337.7 + 5530	medium compact	63	1.7	VD	17
1339.1 + 5147	open	76	2.1	VD	30
1339.7 + 5506	open	117	2.9	D	16
1340.0 + 5218	medium compact	108	1.6	ED	29
1340.5 + 5435	medium compact	177	2.4	VD	18
1341.3 + 5333	compact	72	1.2	ED	15
1341.6 + 5524	medium compact	68	1.1	VD	11
1341.9 + 5550	medium compact	185	3.1	MD	9
1342.8 + 5427	medium compact	96	1.5	VD	12
1343.6 + 5530	medium compact	96	1.4	VD	10
1344.4 + 5403	medium compact	205	3.7	D	13

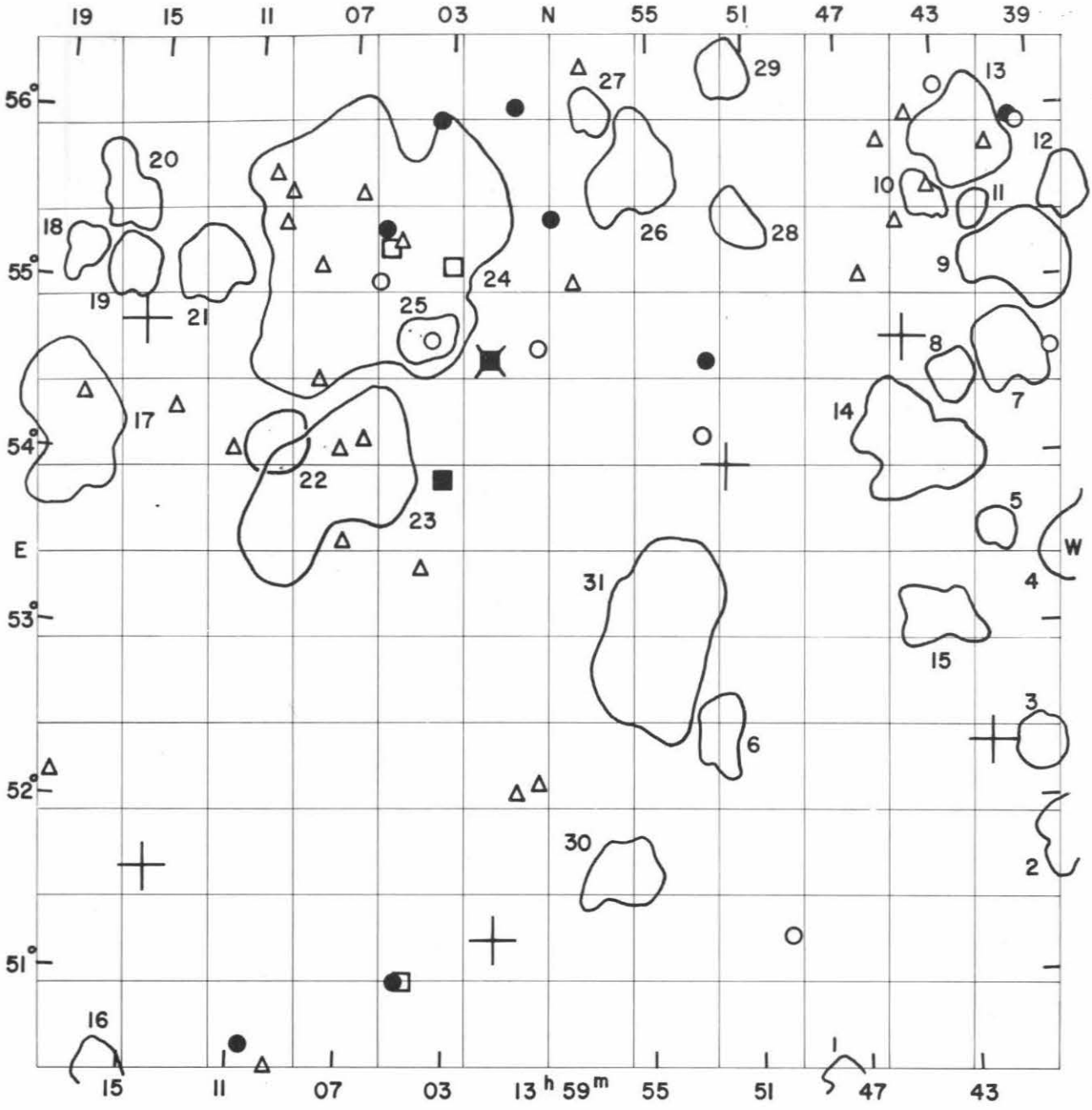
Average number of galaxies per cluster = 124.3

GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
13 02.3	+ 55 37		15.4		
13 02.4	+ 55 52		15.6		
13 02.9	+ 53 55		15.4		
13 03.3	+ 53 52		15.3		compact

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
13 03.4	+ 53 57	847*	15.1		
13 03.5	+ 53 50	4967	15.2		
13 03.8	+ 53 56	4973	14.9		
13 04.0	+ 53 53	4974	15.7		
13 04.0	+ 55 55	4977	14.5		
13 05.2	+ 53 51		15.6		
13 05.3	+ 52 40		15.7		diffuse spiral
13 05.6	+ 53 33		15.1		
13 05.8	+ 52 12	4987	14.6		
13 05.9	+ 54 12		15.3		
13 06.0	+ 50 56	4998	15.2		
13 06.4	+ 55 05		15.2		
13 06.5	+ 52 17		14.7		
13 06.5	+ 53 02	853*	15.0		
13 06.5	+ 54 20		14.2		
13 07.4	+ 53 45	5001	14.6		
13 07.7	+ 55 45		15.7		
13 09.2	+ 53 28		15.5		
13 11.0	+ 50 52		15.0		
13 11.4	+ 51 32	5040	15.1		
13 12.3	+ 51 15		15.7		
13 12.6	+ 54 05		15.0		
13 13.6	+ 52 28		15.6		
13 14.4	+ 51 43		15.6		
13 14.4	+ 53 12		15.5		compact
13 16.2	+ 54 14		15.6		
13 16.4	+ 54 20		15.5		compact
13 17.2	+ 51 24		15.7		
13 17.7	+ 52 20		14.8		triple system
13 20.5	+ 55 05		15.4		
13 20.8	+ 52 00		15.4		
13 21.0	+ 53 15		15.7		
13 21.2	+ 52 55		15.6		twisted streamer
13 22.6	+ 53 14		15.5		
13 24.0	+ 51 35		15.7		
13 24.9	+ 53 01	5163	14.9		
13 25.2	+ 55 45	5164	14.6		
13 25.8	+ 55 04		15.7		
13 26.0	+ 56 16		15.5		
13 26.1	+ 56 17		15.4		
13 27.2	+ 53 20	5201	14.3		
13 27.8	+ 55 52		15.2		
13 27.9	+ 51 10		15.7		
13 28.8	+ 55 10		14.8		
13 31.1	+ 55 05		15.7		
13 31.3	+ 51 46	5225	14.4		
13 31.4	+ 55 13		15.1		
13 32.7	+ 51 53	5238	14.2		
13 34.0	+ 51 30	5250	14.0		
13 37.0	+ 51 42		15.5		diffuse
13 37.4	+ 51 19	907*	15.3		
13 38.7	+ 54 35		14.4		
13 39.5	+ 55 54		14.1		
13 39.8	+ 55 56	5278+5279	13.6		double nebula, connected
13 40.9	+ 55 46		15.6		very compact
13 42.8	+ 56 08		15.0		long jet
13 43.4	+ 55 32	5294	15.2		





FIELD No. 272

$13^h59^m \quad +53^o30'$

Survey Plate No. 1409

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
18572	13 41 58.5	+ 52 18 54	5.82
18633	13 44 43.8	+ 54 40 55	5.53
18796	13 52 00.7	+ 53 58 26	5.65
18990	14 01 08.1	+ 51 12 42	6.05
19269	14 14 23.7	+ 51 35 50	4.78
19290	14 15 23.8	+ 54 46 27	7.06

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1337.6 + 5331	open	81	3.1	D	4
1337.7 + 5530	medium compact	63	1.7	VD	12
1339.1 + 5147	open	76	2.1	VD	2
1339.7 + 5506	open	117	2.9	D	9
1340.0 + 5218	medium compact	108	1.6	ED	3
1340.5 + 5435	medium compact	177	2.4	VD	7
1341.3 + 5333	compact	72	1.2	ED	5
1341.6 + 5524	medium compact	68	1.1	VD	11
1341.9 + 5550	medium compact	185	3.1	MD	13
1342.8 + 5427	medium compact	96	1.5	VD	8
1343.6 + 5530	medium compact	96	1.4	VD	10
1343.7 + 5303	medium compact	111	2.4	VD	15
1344.4 + 5403	medium compact	205	3.7	D	14
1348.0 + 5024	compact	75	1.2	ED	1
1351.3 + 5524	medium compact	76	1.6	VD	28
1351.8 + 5617	compact	80	1.6	ED	29
1352.3 + 5225	medium compact	86	1.8	VD	6
1354.8 + 5257	medium compact	119	4.9	D	31
1355.6 + 5541	compact	221	2.9	ED	26
1356.2 + 5136	medium compact	113	2.2	VD	30
1357.4 + 5601	medium compact	88	1.3	ED	27
1404.0 + 5443	medium compact	75	1.6	ED	25
1406.4 + 5513	open	204	8.1	Near	24
1408.0 + 5353	medium compact	157	5.0	D	23
1409.9 + 5405	medium compact	100	2.0	ED	22
1412.9 + 5506	medium compact	30	2.3	VD	21
1415.5 + 5024	medium compact	76	1.6	ED	16
1416.0 + 5505	compact	86	1.9	ED	19
1416.4 + 5531	medium compact	121	2.1	VD	20
1418.0 + 5510	medium compact	81	1.4	ED	18
1418.3 + 5410	medium compact	80	4.0	VD	17

Average number of galaxies per cluster = 107.2

GALAXIES

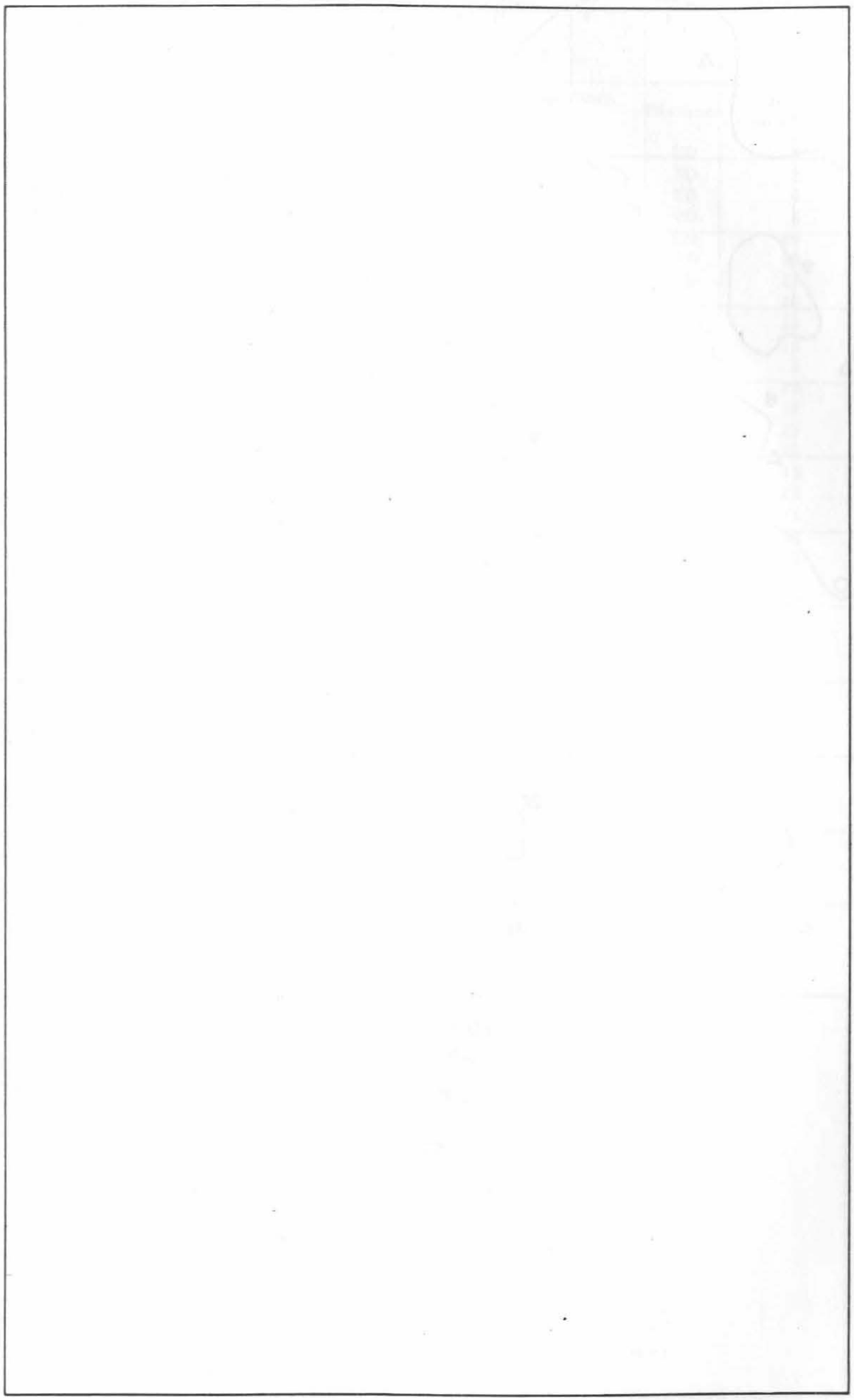
Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
13 38.7	+ 54 35		14.4		
13 39.5	+ 55 54		14.1		
13 39.8	+ 55 56	5278+5279	13.6		double nebula, connected
13 40.9	+ 55 46		15.6		very compact
13 42.8	+ 56 08		15.0		long jet
13 43.4	+ 55 32	5294	15.2		
13 44.2	+ 55 58		15.4		
13 44.8	+ 55 20		15.7		
13 45.4	+ 55 49		15.5		
13 46.4	+ 55 03		15.2		
13 49.8	+ 51 15	951*	14.4		
13 52.6	+ 54 35	5368	13.8		
13 52.9	+ 54 09		14.2		diffuse spiral
13 57.8	+ 56 17		15.6		
13 58.1	+ 55 01		15.3		
13 58.9	+ 55 24	5422	13.1		
13 59.4	+ 52 08		15.4		

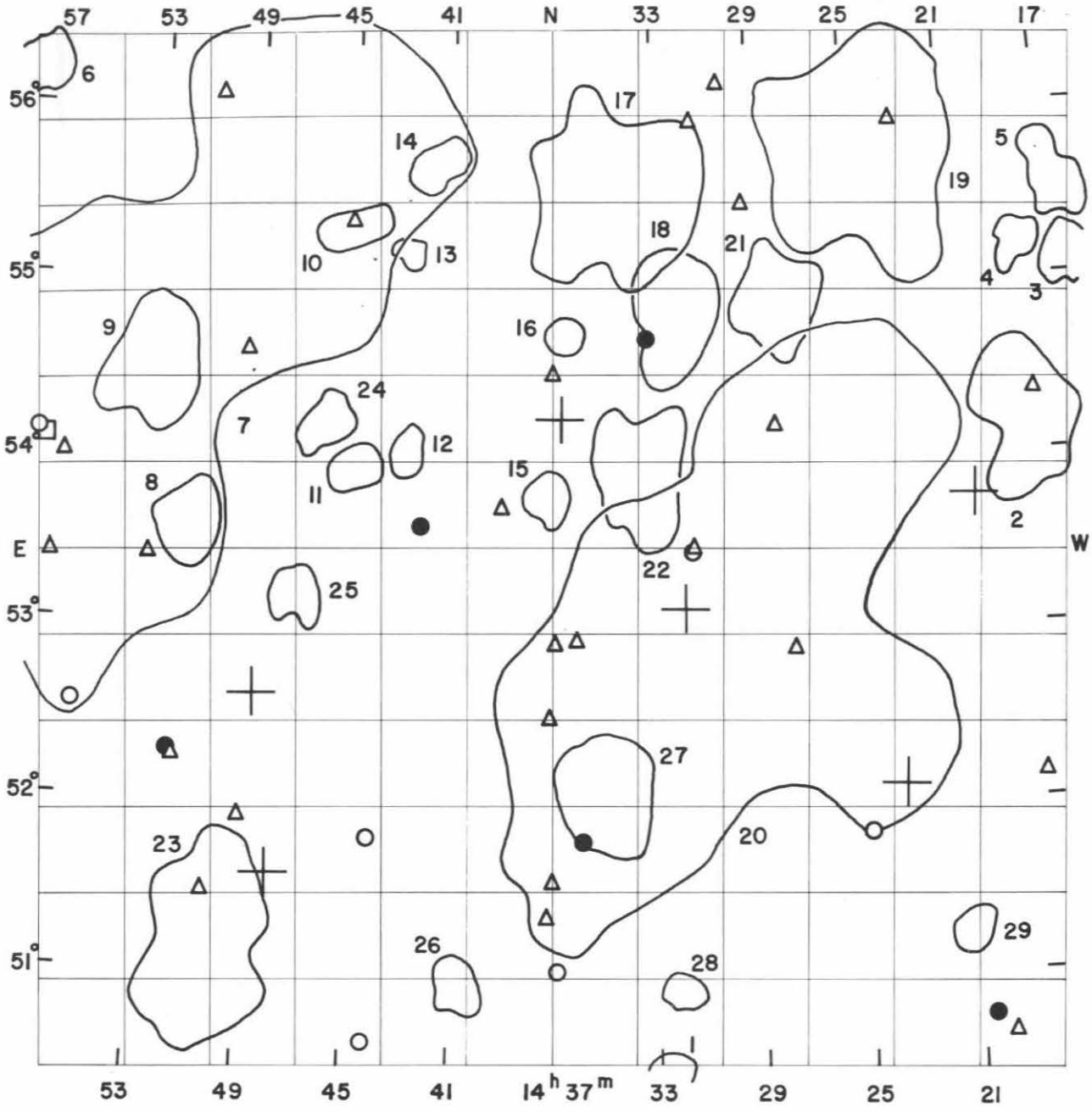
Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
13 59.5	+ 54 40		14.9		
14 00.3	+ 52 05		15.7		
14 00.5	+ 56 03	5443	13.2		
14 01.5	+ 54 35	5457	8.7	+ 247	m_H = 9.0 Sc *)
14 03.0	+ 55 08	5473	12.5	+2059	m_H = 12.8 SBa
14 03.2	+ 53 54	5474	11.9	+ 247	m_H = 11.7 Sc, eccentric nucleus
14 03.5	+ 55 59	5475	13.4		
14 03.8	+ 54 42	5477	14.5		
14 04.1	+ 53 22		15.4		compact
14 04.5	+ 50 59	5480	12.6		m_H = 12.6 S
14 04.9	+ 50 59	5481	13.5		
14 05.1	+ 55 16	5484	15.6		
14 05.5	+ 55 15	5485	12.4	+1985	m_H = 12.9 Ep
14 05.7	+ 55 20	5486	14.0		
14 06.0	+ 55 02		14.7		compact
14 06.5	+ 54 07		15.6		
14 06.6	+ 55 32		15.5		
14 07.1	+ 53 31		15.6		
14 07.4	+ 54 04		15.4		
14 08.3	+ 55 07		15.1		
14 08.4	+ 54 27		15.1		
14 09.6	+ 50 27		15.1		
14 09.6	+ 55 32		15.7		
14 09.8	+ 55 21		15.3		
14 10.3	+ 55 38		15.5		compact
14 10.5	+ 50 36	5520	13.3		
14 11.6	+ 54 03		15.7		double nucleus
14 14.1	+ 54 16		15.5		diffuse spiral
14 17.8	+ 54 19		15.7		
14 18.1	+ 52 08		15.5		double system, bridge

*) The NGC numbers 5447, 5449, 5450, 5451, 5453, 5455, 5458, 5461, 5462, 5471 refer to individual knots on the arms of NGC 5457 = M 101.

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
5457	8.4	Sc	9.17	Sc	8.5	Sc	8.20	Sc-
5473	-	-	12.39	SB0	12.4	SB0	-	-
5474	11.4	Sc	12.56	Sc	12.1	Sc	11.22	Sc+
5485	-	-	12.58	S0	12.6	S0	-	-





FIELD No. 273

14^h37^m $+53^\circ30'$

Survey Plate No. 715

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
19390	14 20 18.5	+ 53 44 54	7.43
19467	14 23 29.6	+ 52 04 52	4.06
19646	14 31 50.9	+ 53 07 26	7.37
19742	14 36 40.0	+ 54 14 19	5.52
19969	14 47 54.9	+ 51 34 51	6.42
19984	14 48 38.8	+ 52 37 08	7.09

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1416.0 + 5505	compact	86	1.9	ED	3
1416.4 + 5531	medium compact	121	2.1	VD	5
1418.0 + 5510	medium compact	81	1.4	ED	4
1418.3 + 5410	medium compact	80	4.0	VD	2
1421.1 + 5113	medium compact	54	1.3	ED	29
1424.4 + 5545	compact	245	6.7	MD	19
1427.9 + 5454	medium compact	114	3.0	D	21
1429.9 + 5256	open	190	14.9	Near	20
1432.0 + 5054	compact	63	1.2	ED	28
1432.0 + 5450	compact	95	3.3	D	18
1432.7 + 5023	medium compact	78	1.4	VD	1
1433.4 + 5355	medium compact	97	3.7	D	22
1434.5 + 5532	compact	236	5.4	MD	17
1435.0 + 5203	open	87	3.5	D	27
1436.6 + 5442	compact	60	1.2	ED	16
1437.1 + 5346	compact	86	1.5	ED	15
1440.6 + 5056	compact	73	1.6	VD	26
1441.7 + 5542	medium compact	143	1.6	ED	14
1442.9 + 5401	medium compact	60	1.2	ED	12
1442.9 + 5511	medium compact	54	0.9	ED	13
1444.9 + 5356	medium compact	80	1.4	ED	11
1445.0 + 5520	open	77	1.7	ED	10
1446.0 + 5412	medium compact	105	1.7	ED	24
1447.0 + 5313	compact	92	1.7	ED	25
1450.1 + 5109	medium compact	121	5.1	MD	23
1451.4 + 5335	compact	141	2.3	VD	8
1453.0 + 5429	medium compact	121	3.5	MD	9
1457.5 + 5415	open	245	19.9	Near	7
1458.4 + 5613	medium compact	92	1.7	VD	6

Average number of galaxies per cluster = 109.6

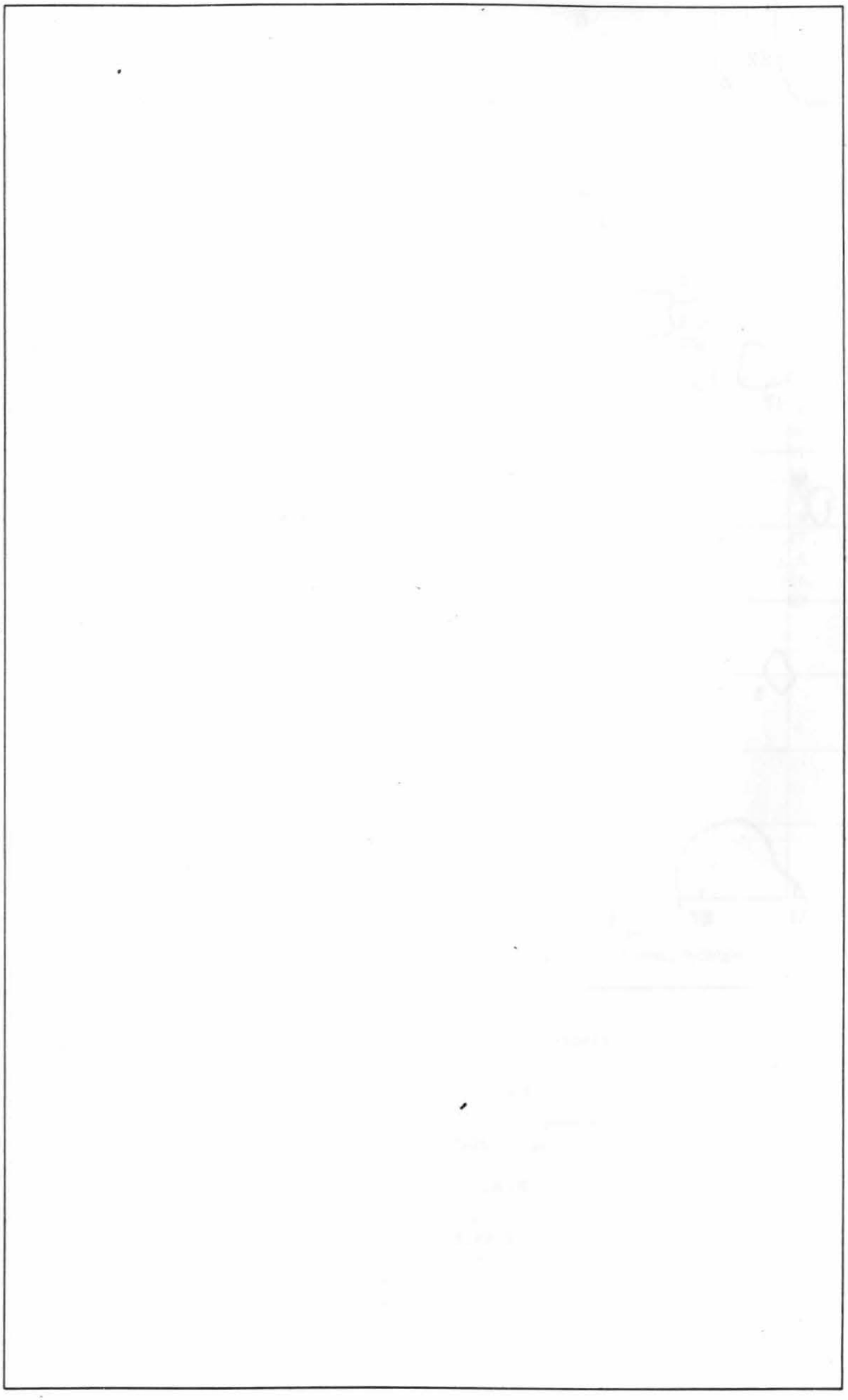
GALAXIES

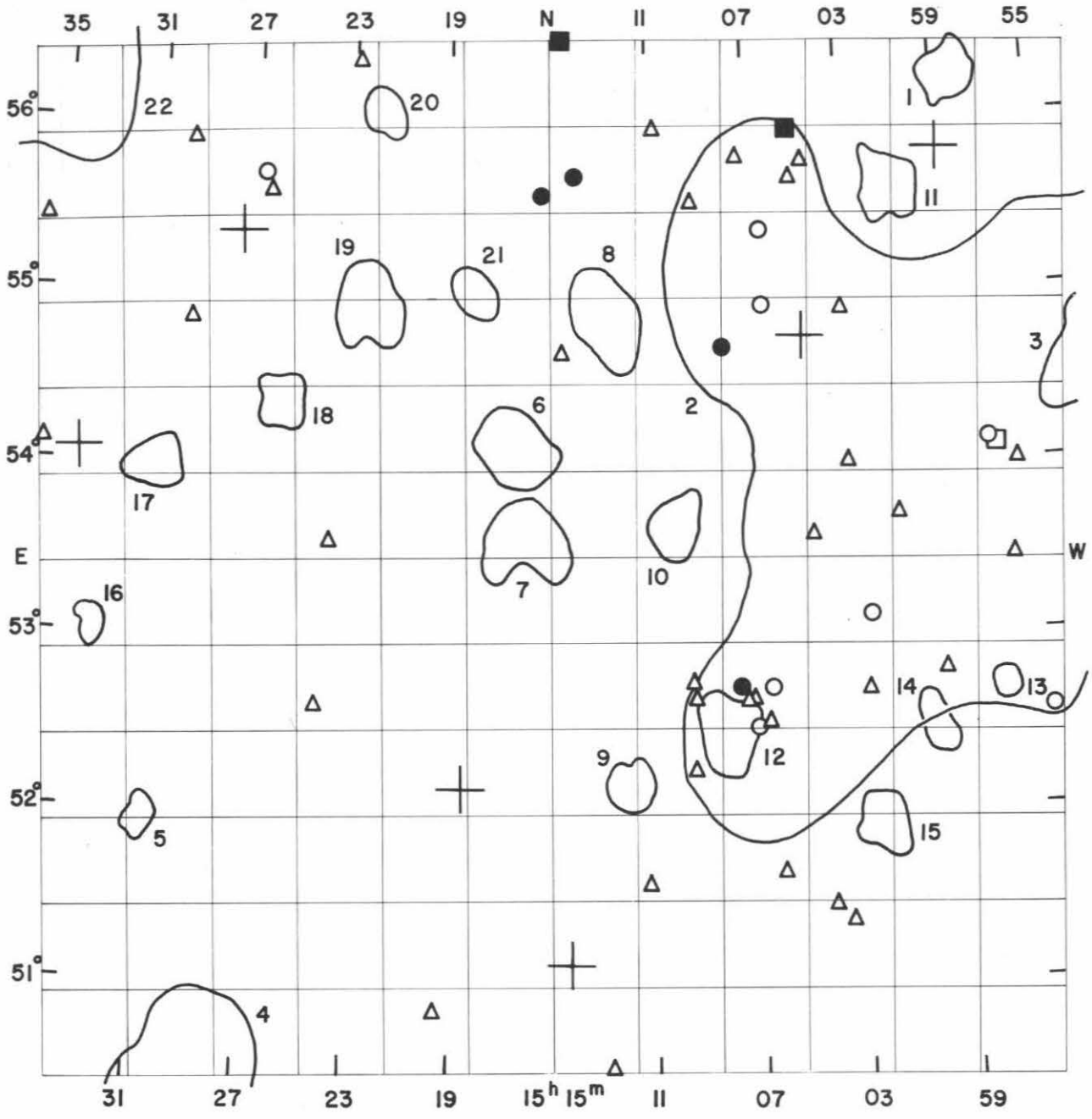
Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
14 17.8	+ 54 19		15.7		
14 18.1	+ 52 08		15.5		double system, bridge
14 19.8	+ 50 39		15.3		
14 20.5	+ 50 45	5602	13.5		
14 23.1	+ 55 55		15.5		compact
14 24.8	+ 51 50	5624	14.1		
14 27.6	+ 52 53		15.4		
14 28.2	+ 54 12	1027*	15.4		
14 29.3	+ 55 28		15.6		compact
14 30.2	+ 56 10		15.4		
14 31.4	+ 55 57		15.7		compact
14 31.5	+ 53 30		15.4		
14 31.6	+ 53 28		15.0		
14 33.3	+ 54 42	5687	13.3	+ 2119	m_H = 12.7 S
14 35.9	+ 51 48	5707	13.3		double system
14 36.1	+ 52 57		15.6		
14 36.8	+ 51 04	5720	14.7		
14 37.0	+ 51 34		15.5		
14 37.0	+ 52 56		15.7		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
14 37.0	+ 54 30		15.1		
14 37.1	+ 52 30		15.7		
14 37.2	+ 51 22		15.3		
14 39.1	+ 53 44		15.2		double system, tidal effect
14 42.3	+ 53 37	5751	13.9		
14 44.1	+ 50 38	1056*=1057*	14.4		
14 44.1	+ 51 48		14.7		eruptive galaxy
14 45.0	+ 55 23		15.7		
14 49.0	+ 51 55		15.6		
14 49.2	+ 54 37	1069*	15.1		
14 50.4	+ 51 29	1074*	15.2		
14 50.8	+ 56 06	5779	15.7		
14 51.7	+ 52 15		15.6		
14 51.9	+ 52 17	5783=5785	14.0		
14 52.9	+ 53 25		15.5		
14 55.6	+ 52 32		14.6		
14 56.4	+ 53 59		15.3		diffuse spiral
14 56.8	+ 53 26		15.6		compact
14 57.1	+ 54 05	5820	13.0	+ 3269	m_H = 12.8 E
14 57.5	+ 54 07	5821	14.9		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
5687	-	-	12.63	E3	12.8	E3	-	-
5820	-	-	13.03	S0	13.1	S0	-	-





FIELD No. 274

15^h15^m $+53^o30'$

Survey Plate No. 1096

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
20207	14 58 59.0	+ 55 48 54	7.12
20332	15 04 50.9	+ 54 44 53	5.21
20540	15 14 18.9	+ 51 07 21	6.52
20641	15 18 36.8	+ 52 08 16	5.52
20833	15 27 39.2	+ 55 21 55	6.30
20977	15 33 56.7	+ 54 05 13	6.03

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1453.0 + 5429	medium compact	121	3.5	MD	3
1457.3 + 5241	compact	42	0.9	ED	13
1457.5 + 5415	open	245	19.9	Near	2
1458.4 + 5613	medium compact	92	1.7	VD	1
1500.0 + 5228	compact	58	1.4	ED	14
1501.0 + 5536	medium compact	76	2.1	VD	11
1502.4 + 5155	medium compact	85	1.8	ED	15
1508.1 + 5227	compact	76	2.2	VD	12
1510.1 + 5339	medium compact	100	1.8	ED	10
1512.0 + 5209	medium compact	60	1.6	ED	9
1512.7 + 5451	medium compact	123	2.5	VD	8
1516.0 + 5336	medium compact	100	2.5	VD	7
1516.4 + 5406	medium compact	91	2.4	VD	6
1518.1 + 5501	compact	60	1.4	VD	21
1522.0 + 5604	compact	62	1.4	ED	20
1522.3 + 5456	medium compact	124	2.4	VD	19
1525.9 + 5422	compact	55	1.7	ED	18
1528.7 + 5019	open	126	5.4	MD	4
1530.9 + 5400	medium compact	57	1.8	ED	17
1531.0 + 5156	compact	42	1.2	ED	5
1533.1 + 5303	compact	56	1.0	ED	16
1540.3 + 5557	medium compact	401	13.0	MD	22

Average number of galaxies per cluster = 102.4

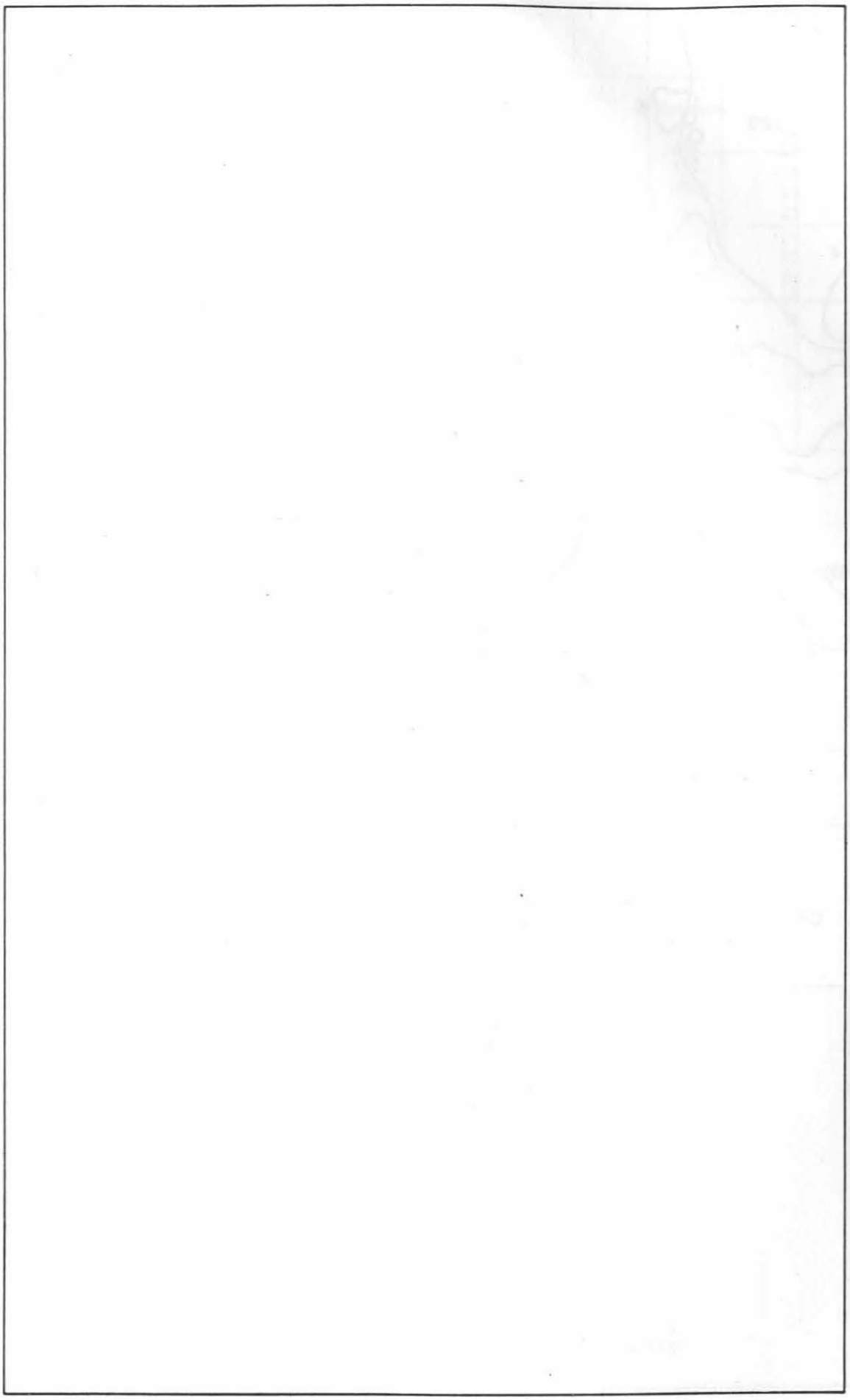
GALAXIES

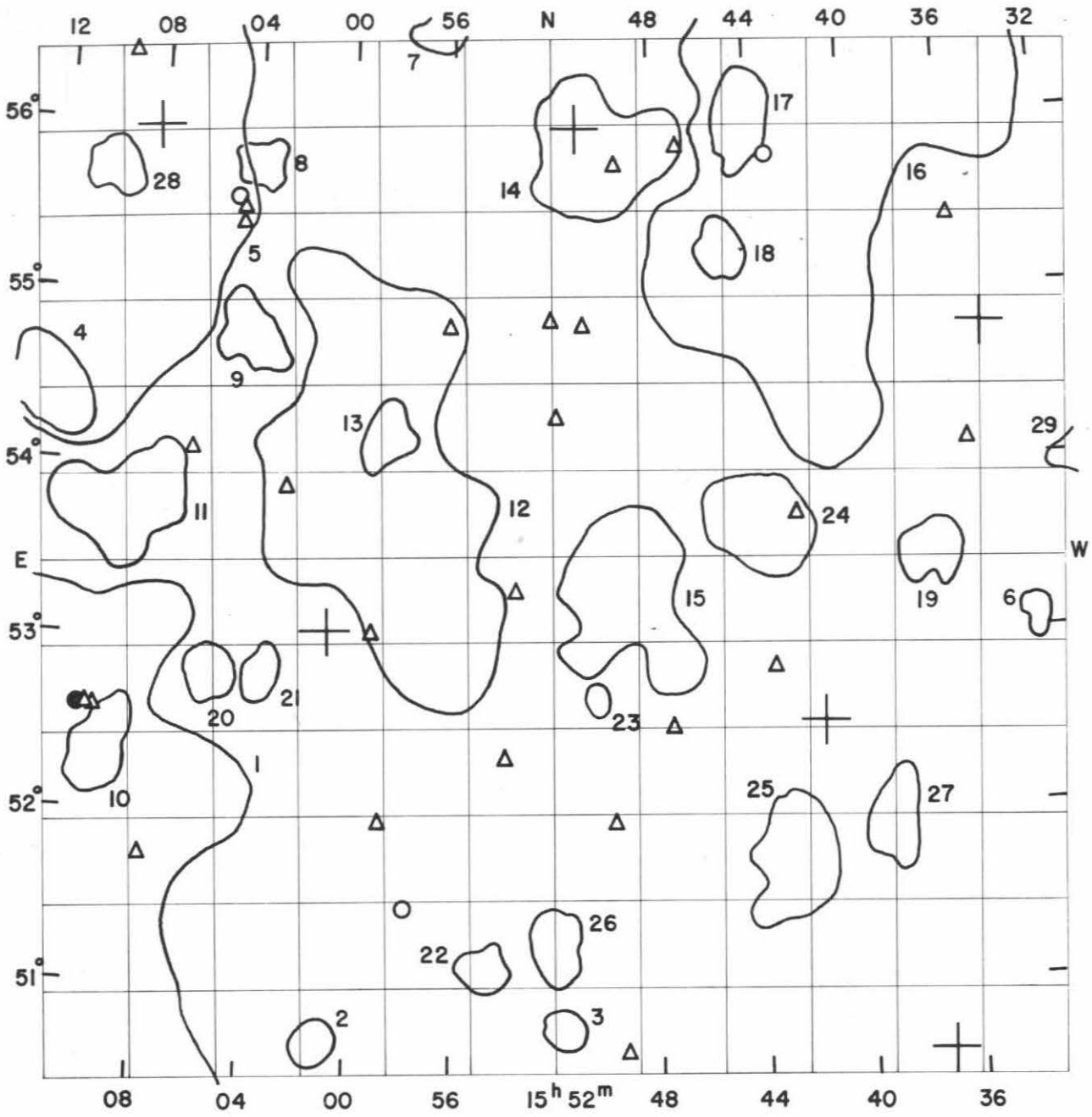
Position α 1950 h m	Position δ 1950 o ′	NGC IC*	m_p	V_s km/sec	Remarks
14 55.6	+ 52 32		14.6		
14 56.4	+ 53 59		15.3		diffuse spiral
14 56.8	+ 53 26		15.6		compact
14 57.1	+ 54 05	5820	13.0	+ 3269	m_H = 12.8 E
14 57.5	+ 54 07	5821	14.9		
14 59.6	+ 52 48		15.2		very diffuse
15 01.2	+ 53 43		15.5		double system, bridge + plume
15 02.5	+ 53 08		14.8		
15 02.7	+ 52 42		15.4		
15 03.1	+ 54 01		15.6		
15 03.2	+ 54 54		15.5		compact
15 03.6	+ 51 22		15.7		
15 04.2	+ 51 28		15.4		
15 04.6	+ 53 37		15.5		
15 04.6	+ 55 46	5862	15.7		compact
15 05.1	+ 55 57	5866	11.1	+ 795	m_H = 11.5 Sa
15 05.2	+ 55 40	5870	15.3		
15 06.1	+ 51 40		15.6		
15 06.4	+ 52 43		15.0		
15 06.4	+ 54 56	5874	14.1		
15 06.4	+ 55 22		14.7		
15 06.6	+ 52 31		15.3		
15 07.0	+ 52 29		14.1		
15 07.1	+ 52 39		15.5		compact
15 07.3	+ 55 47		15.6		compact
15 07.4	+ 52 38		15.7		

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
15 07.7	+ 52 44	5875	13.4		
15 08.0	+ 54 41	5876	13.9		
15 09.3	+ 55 32		15.4		
15 09.4	+ 52 39		15.3		
15 09.5	+ 52 15		15.2		
15 09.5	+ 52 45		15.6		
15 10.7	+ 55 59		15.7		very diffuse
15 11.3	+ 51 37		15.3		double system
15 12.8	+ 50 33	5902	15.4		star superposed
15 14.0	+ 55 42	5905	13.6		m_H = 13.1
15 14.6	+ 54 40	1111*	15.5		
15 14.6	+ 56 30	5906+5907	11.4	+ 538	m_H = 11.8 Sc
15 15.3	+ 55 35	5908	13.5		m_H = 13.0
15 19.6	+ 50 52		15.5		double system, tidal effects
15 23.0	+ 56 22		15.6		
15 23.9	+ 53 35		15.7		
15 24.4	+ 52 37		15.1		
15 26.5	+ 55 36		15.6		
15 26.8	+ 55 43		14.8		
15 29.7	+ 54 51		15.1		jet + plumes
15 29.9	+ 55 54		15.7		
15 35.4	+ 54 07		15.7		
15 35.8	+ 55 25		15.2		extremely compact

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
5820	-	-	13.03	S0	13.1	S0	-	-
5866	-	-	10.89	S0	10.9	S0	-	-
5907	-	-	11.19	Sb	11.0	Sb	11.04	Sb+





FIELD No. 275

15^h52^m $+53^o30'$

Survey Plate No. 1413

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
20999	15 34 39.8	+ 54 47 41	5.74
21054	15 37 06.5	+ 50 35 07	5.94
21154	15 41 29.0	+ 52 31 04	5.48
21345	15 51 06.6	+ 55 58 25	5.92
21569	16 00 48.8	+ 53 03 14	6.18
21756	16 08 19.7	+ 55 57 30	6.59

CLUSTERS OF GALAXIES

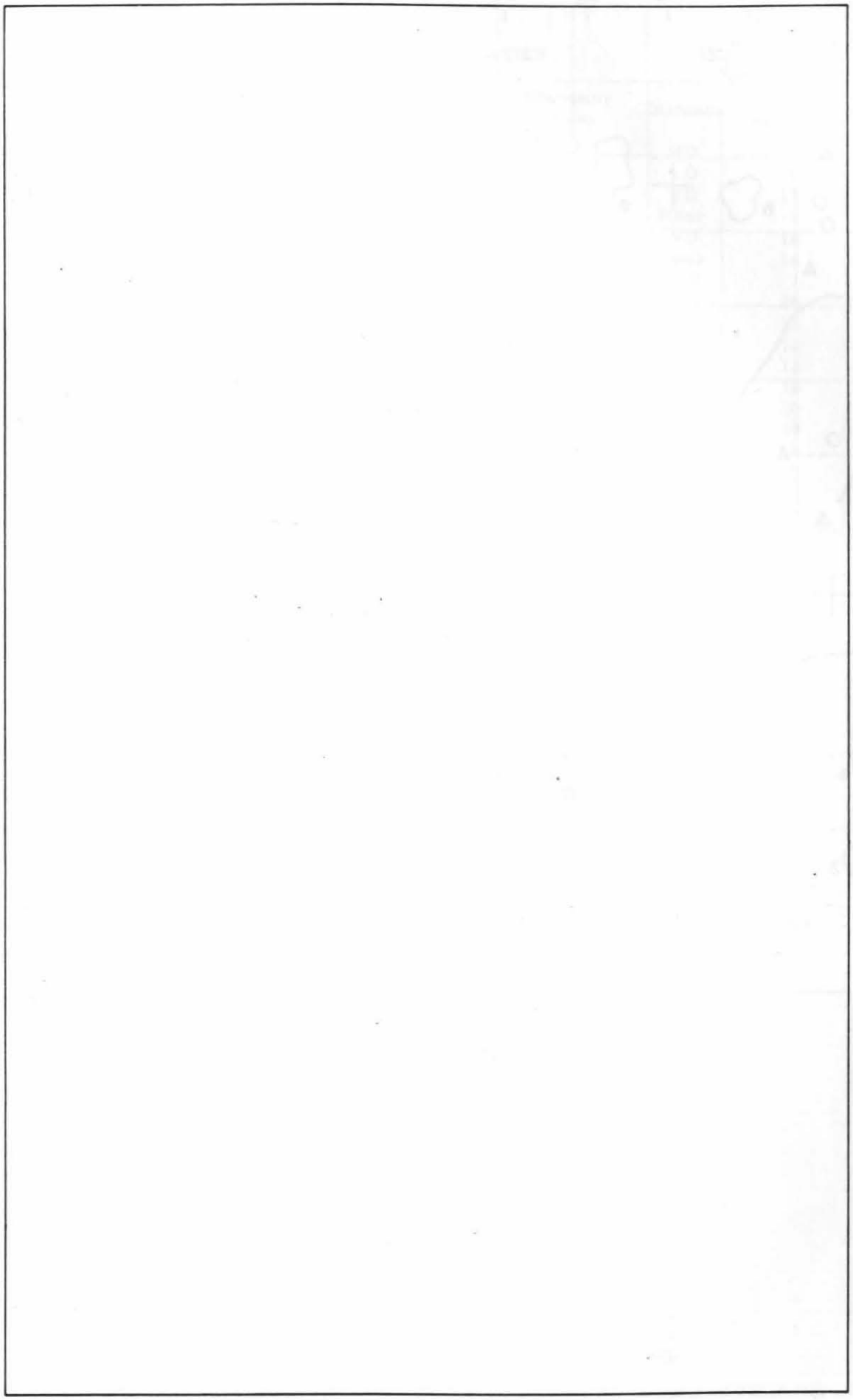
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1530.9 + 5400	medium compact	57	1.8	ED	29
1533.1 + 5303	compact	56	1.0	ED	6
1537.0 + 5328	medium compact	102	2.0	VD	19
1539.0 + 5155	medium compact	106	2.2	VD	27
1540.3 + 5557	medium compact	401	13.0	MD	16
1542.8 + 5142	medium compact	95	3.4	D	25
1543.9 + 5340	medium compact	93	3.4	VD	24
1544.1 + 5600	medium compact	117	2.3	D	17
1545.0 + 5515	medium compact	78	1.6	ED	18
1549.0 + 5315	medium compact	140	4.7	MD	15
1550.2 + 5550	medium compact	121	4.4	VD	14
1550.3 + 5239	compact	56	0.8	ED	23
1551.5 + 5044	medium compact	81	1.3	ED	3
1551.9 + 5114	compact	119	2.0	ED	26
1554.8 + 5106	medium compact	87	1.5	ED	22
1556.6 + 5635	medium compact	83	1.6	ED	7
1558.6 + 5410	compact	77	1.7	ED	13
1559.0 + 5353	compact	281	9.4	Near	12
1601.0 + 5039	medium compact	88	1.4	ED	2
1603.4 + 5247	medium compact	65	1.5	ED	21
1604.0 + 5544	compact	81	1.6	VD	8
1604.1 + 5445	compact	230	2.1	ED	9
1605.4 + 5247	medium compact	96	1.6	VD	20
1609.0 + 5345	medium compact	100	3.6	MD	11
1609.6 + 5219	medium compact	85	2.3	D	10
1610.0 + 5543	medium compact	80	1.7	VD	28
1610.3 + 4955	open	675	26.7	Near	1
1612.1 + 5425	medium compact	107	2.8	VD	4
1613.8 + 5632	open	393	19.7	Near	5

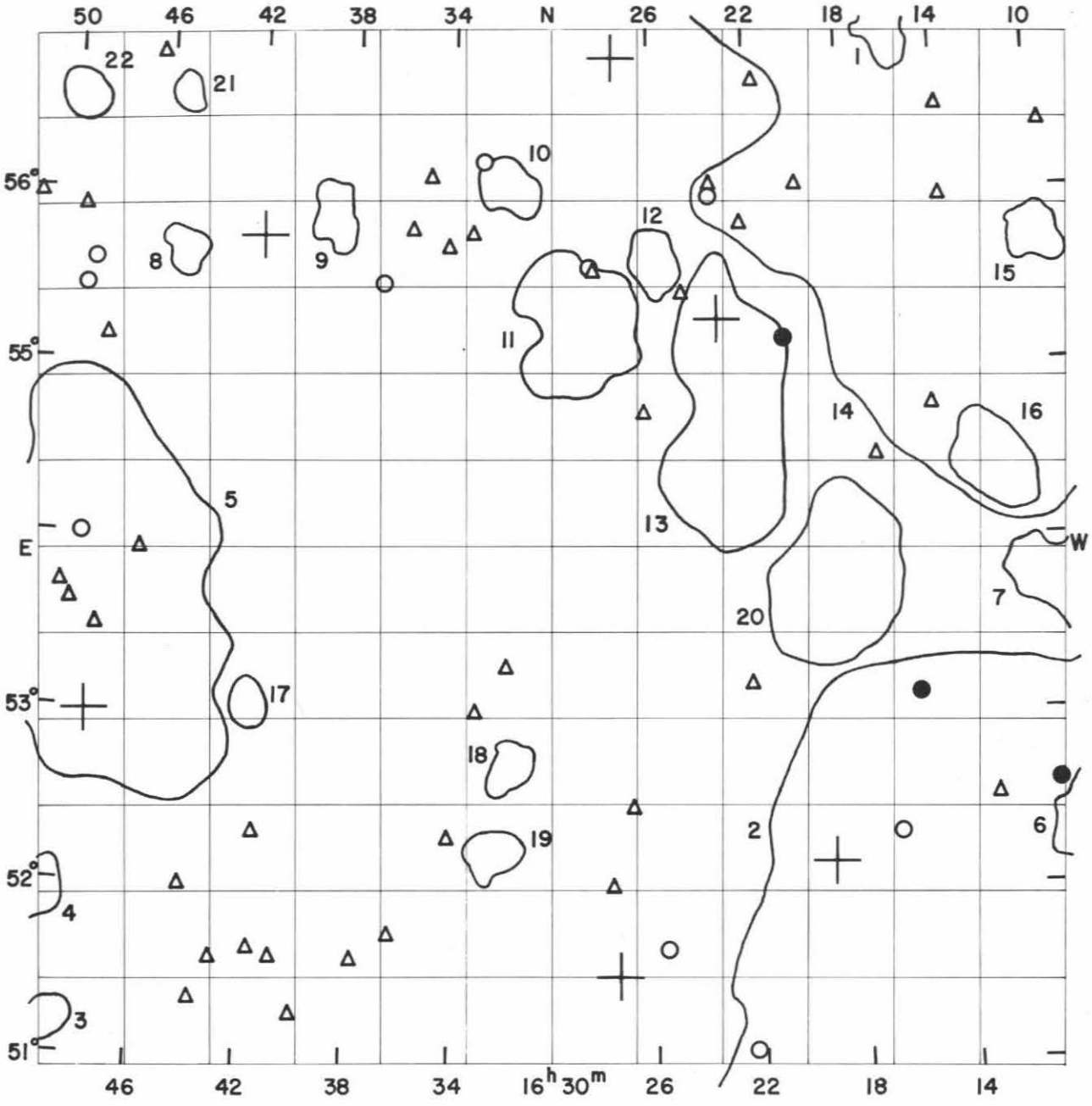
Average number of galaxies per cluster = 143.1

GALAXIES

Position α 1950 δ (h m, o ′)	NGC IC*	m_p	V_s km/sec	Remarks
15 35.4 + 54 07		15.7		
15 35.8 + 55 25		15.2		extremely compact
15 42.3 + 53 44		15.3		
15 43.2 + 55 49		14.9		
15 43.4 + 52 51		15.5		
15 46.9 + 55 52		15.1		twisted streamers
15 47.4 + 52 30		15.6		
15 49.3 + 50 38		15.1		
15 49.5 + 55 46		15.4		
15 49.7 + 51 57		15.4		
15 50.8 + 54 49		15.6		
15 51.9 + 54 18		15.7		
15 52.0 + 54 52		15.4		compact
15 53.5 + 53 18		15.7		
15 53.9 + 52 20		15.3		
15 56.1 + 54 49		15.6		
15 57.7 + 51 28		15.0		
15 58.8 + 51 58		15.7		ring shaped halo
15 59.1 + 53 03		15.2		

Position α 1950 h m	Position δ ° ′	NGC IC*	m_p	V_s km/sec	Remarks
16 02.6	+ 53 53		15.6		
16 04.6	+ 55 30		15.5		compact
16 04.7	+ 55 24		15.7		
16 05.0	+ 55 33		15.0		very long, extended arm
16 06.5	+ 54 06		15.6		
16 07.8	+ 51 45		15.7		
16 09.5	+ 56 23		15.6		
16 09.8	+ 52 34		15.7		very faint streamers
16 10.1	+ 52 35		15.5		
16 10.4	+ 52 35	6090	14.0		double system, halo + plumes





FIELD No. 276

16^h30^m $+54^o00'$

Survey Plate No. 1101

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
22003	16 19 08.4	+ 52 09 25	6.67
22102	16 23 19.5	+ 55 19 05	5.66
22185	16 27 26.7	+ 51 30 58	6.37
22186	16 27 31.9	+ 56 50 38	9.0
22521	16 41 56.9	+ 55 46 53	6.18
22672	16 48 14.0	+ 53 00 07	7.13

CLUSTERS OF GALAXIES

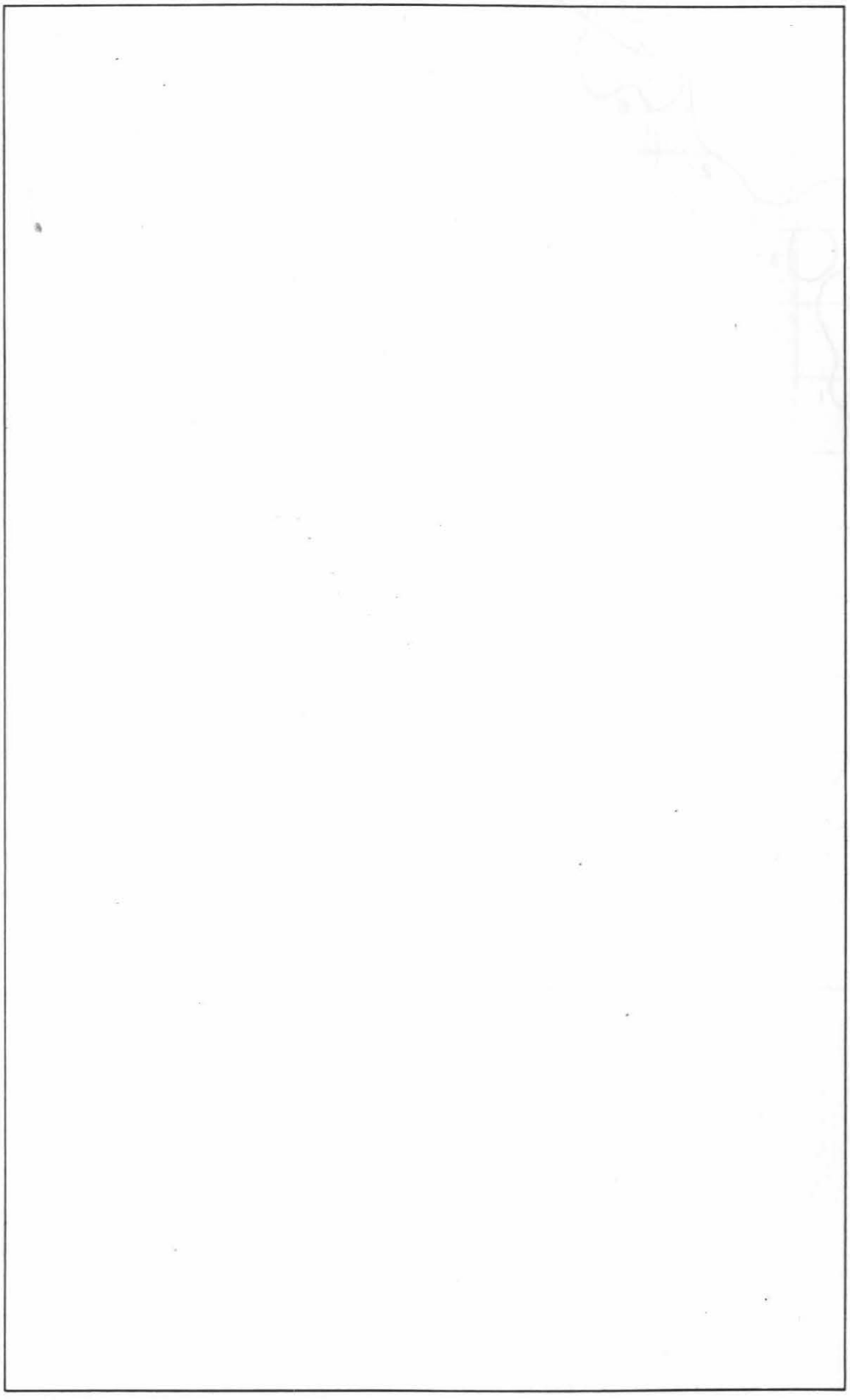
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1609.0 + 5345	medium compact	100	3.6	MD	7
1609.6 + 5219	medium compact	85	2.3	D	6
1610.0 + 5543	medium compact	80	1.7	VD	15
1610.3 + 4955	open	675	26.7	Near	2
1612.1 + 5425	medium compact	107	2.8	VD	16
1613.8 + 5632	open	393	19.7	Near	14
1615.7 + 5700	medium compact	107	2.1	VD	1
1618.5 + 5346	medium compact	114	4.8	MD	20
1622.8 + 5443	medium compact	154	5.8	D	13
1625.8 + 5538	compact	76	1.7	VD	12
1629.0 + 5516	medium compact	108	4.2	D	11
1631.6 + 5243	compact	83	1.5	ED	18
1631.8 + 5605	medium compact	59	1.7	VD	10
1632.3 + 5213	medium compact	75	1.6	ED	19
1639.0 + 5553	medium compact	94	1.6	ED	9
1641.9 + 5303	compact	72	1.4	ED	17
1645.1 + 5540	compact	82	1.4	ED	8
1645.6 + 5634	medium compact	76	1.1	ED	21
1647.6 + 5337	medium compact	157	10.0	Near	5
1648.9 + 5110	compact	86	1.2	ED	3
1650.0 + 5155	medium compact	126	2.1	VD	4
1650.0 + 5633	compact	88	1.5	VD	22

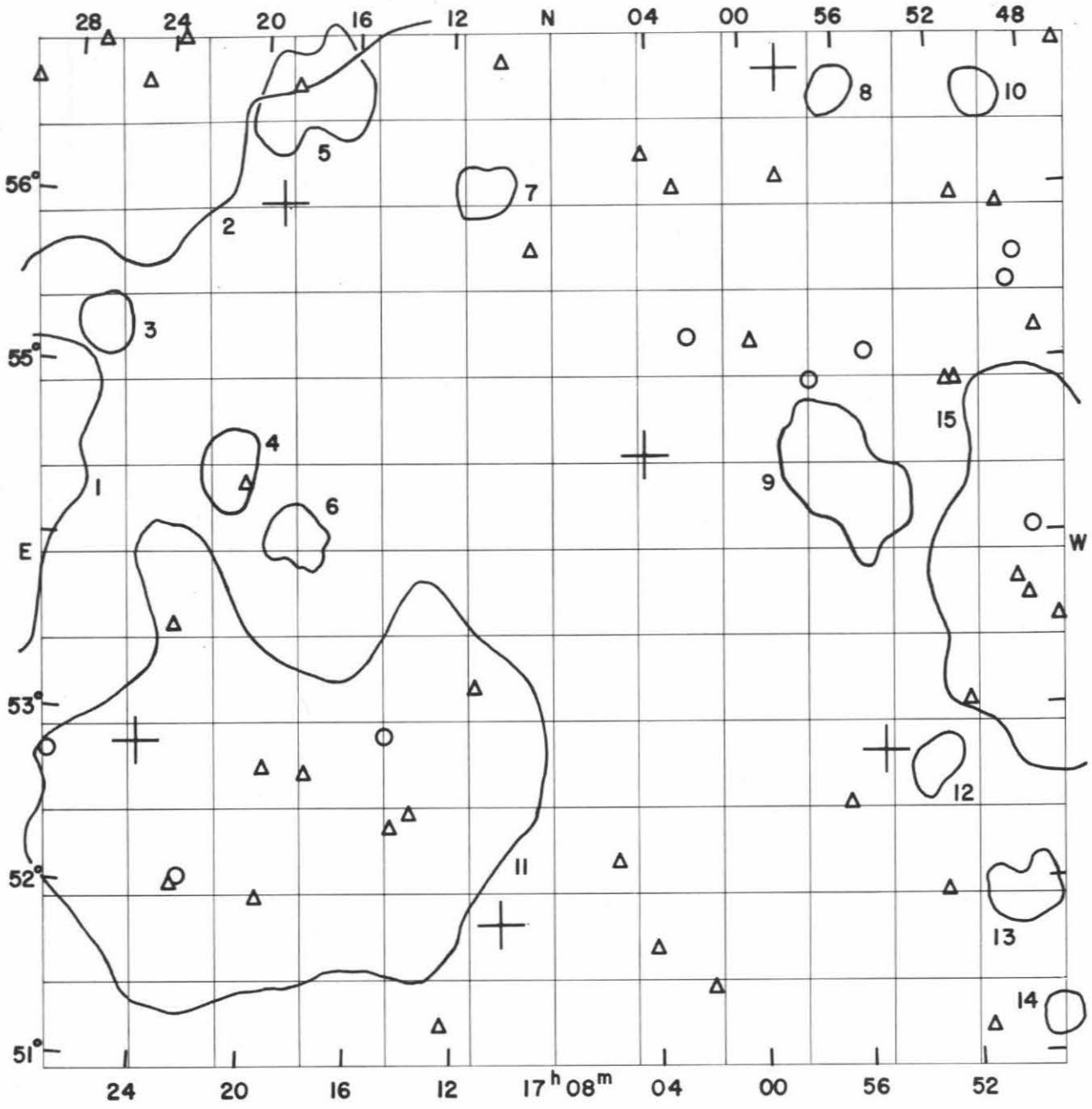
Average number of galaxies per cluster = 136.2

GALAXIES

Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
16 09.5	+ 56 23		15.6		
16 10.4	+ 52 35	6090	14.0		double system, halo + plumes
16 12.8	+ 52 32		15.5		
16 13.8	+ 56 00		15.2		
16 13.8	+ 56 31		15.6		double system
16 14.5	+ 54 47		15.1		compact
16 15.6	+ 53 08	1211*	13.8		compact
16 16.5	+ 52 20		15.0		
16 16.9	+ 54 31		15.5		diffuse
16 19.8	+ 56 05	6136	15.5		
16 20.5	+ 55 12	6143	13.9		
16 21.5	+ 56 42		15.5		
16 22.1	+ 53 13		15.7		
16 22.1	+ 55 52		15.6		diffuse
16 22.3	+ 51 06		14.6		
16 23.4	+ 56 01		15.0		very compact
16 23.4	+ 56 06		15.7		
16 24.7	+ 55 28	6157	15.5		
16 25.6	+ 51 41		14.7		
16 26.3	+ 54 47		15.3		
16 26.8	+ 52 30		15.5		double system
16 27.7	+ 52 03		15.7		
16 28.4	+ 55 35		15.7		
16 28.5	+ 55 37	6182	14.6		
16 31.8	+ 53 18		15.3		
16 32.8	+ 56 13		15.0		

Position α 1950 δ	NGC IC*	m_p	V_s km/sec	Remarks
h m o '				
16 33.0 + 53 03		15.1		
16 33.2 + 55 49		15.7		
16 34.0 + 52 20		15.6		very compact
16 34.1 + 55 44		15.5		double system, contact
16 35.0 + 56 08		15.5		
16 35.7 + 55 50		15.2		
16 36.3 + 51 46		15.7		
16 36.9 + 55 31		14.9		compact
16 37.7 + 51 38		15.4		compact
16 40.0 + 51 18		15.2		
16 40.8 + 51 38		15.6		very compact
16 41.6 + 51 40		15.4		compact
16 41.6 + 52 20		15.7		
16 43.0 + 51 37		15.7		
16 43.8 + 51 22	1230*	15.5		quadruple system
16 44.4 + 52 01		15.6		
16 46.4 + 53 57		15.7		
16 46.5 + 56 50		15.4		compact
16 48.0 + 53 31		15.5		brightest in chain of 6
16 48.1 + 55 11		15.6		
16 48.8 + 54 02		14.4		
16 48.9 + 55 38	6246	14.2		
16 49.1 + 53 39		15.5		
16 49.2 + 55 28		14.7		
16 49.4 + 55 55		15.4		
16 49.6 + 53 45		15.4		
16 51.3 + 55 59		15.2		





FIELD No. 277

17^h08^m + 54°00'

Survey Plate No. 765

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	° ' "	
22859	16 55 08.9	+ 52 46 31	7.08
22938	16 58 26.3	+ 56 45 40	6.11
23092	17 04 17.4	+ 54 32 08	5.06
23221	17 10 06.7	+ 51 48 48	7.03
23460	17 19 09.3	+ 55 59 02	7.88
23634	17 24 17.8	+ 52 50 01	6.56

CLUSTERS OF GALAXIES

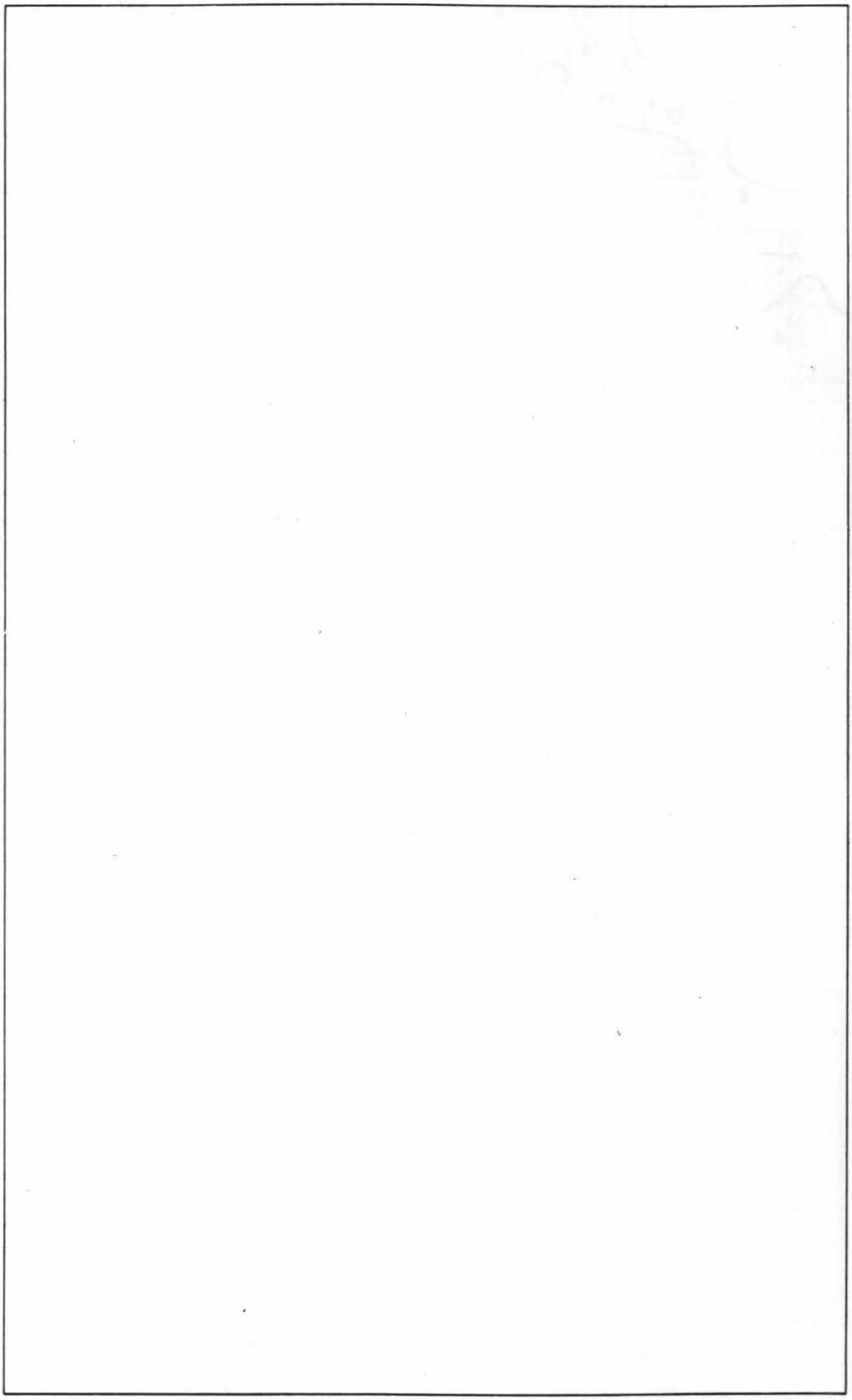
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1647.6 + 5337	medium compact	157	10.0	Near	15
1648.9 + 5110	compact	86	1.2	ED	14
1650.0 + 5155	medium compact	126	2.1	VD	13
1650.0 + 5633	compact	88	1.5	VD	10
1653.1 + 5240	compact	76	1.6	ED	12
1656.0 + 5637	medium compact	94	1.4	ED	8
1656.1 + 5421	medium compact	164	4.0	D	9
1710.7 + 5603	medium compact	102	1.8	ED	7
1717.9 + 5636	medium compact	130	3.5	D	5
1718.2 + 5403	medium compact	108	2.0	ED	6
1718.6 + 5229	open	230	14.1	Near	11
1721.0 + 5425	medium compact	142	2.2	ED	4
1726.4 + 5515	medium compact	123	1.8	ED	3
1730.4 + 5829	open	417	26.0	Near	2
1731.6 + 5348	medium compact	199	8.6	MD	1

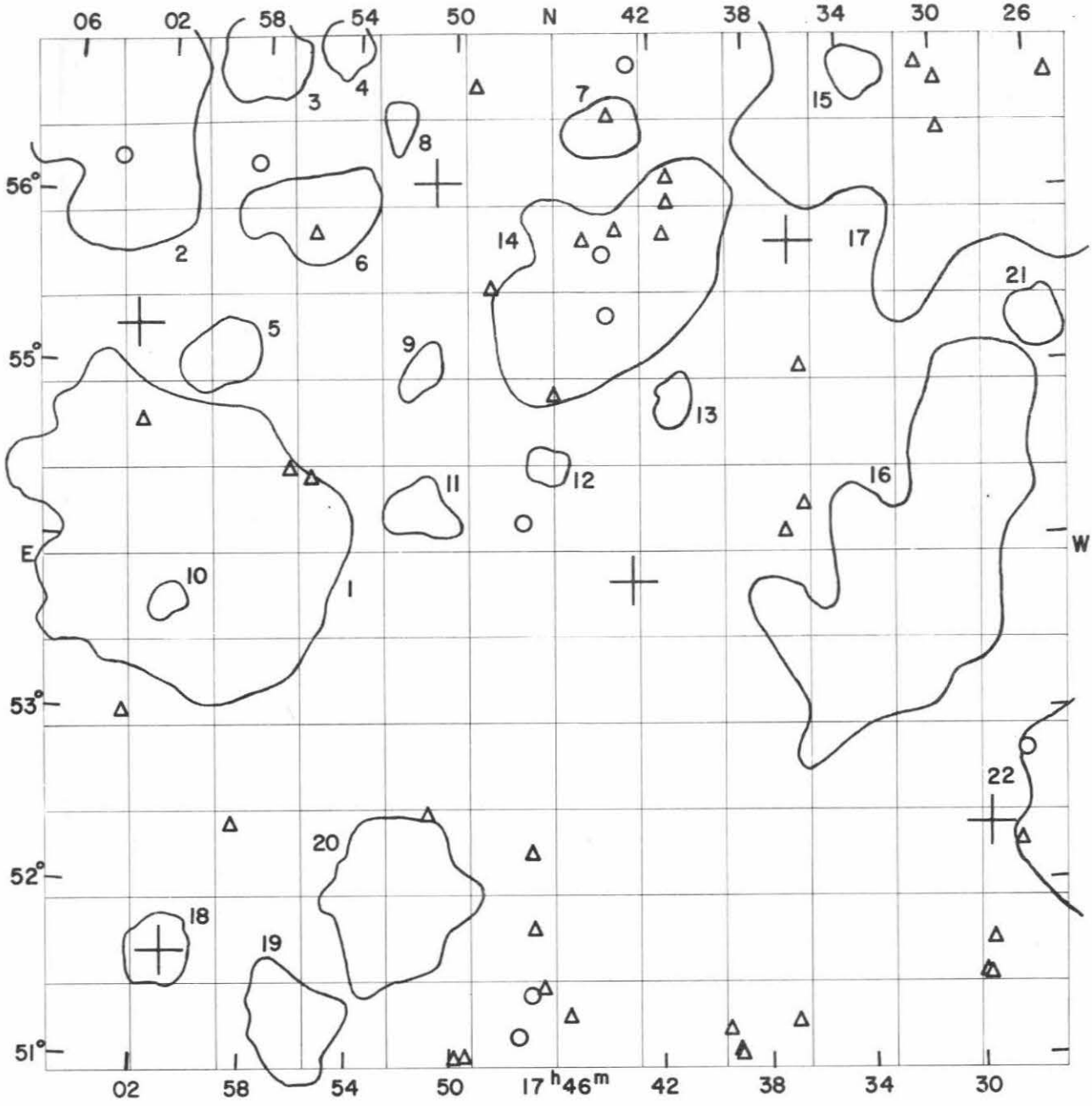
Average number of galaxies per cluster = 149.5

GALAXIES

Position α 1950 h m	Position δ 1950 ° ′	NGC IC*	m_p	V_s km/sec	Remarks
16 46.5	+ 56 50		15.4		compact
16 48.0	+ 53 31		15.5		brightest in chain of 6
16 48.1	+ 55 11		15.6		
16 48.8	+ 54 02		14.4		
16 48.9	+ 55 38	6246	14.2		
16 49.1	+ 53 39		15.5		
16 49.2	+ 55 28		14.7		
16 49.4	+ 55 55		15.4		
16 49.6	+ 53 45		15.4		
16 51.3	+ 55 59		15.2		
16 51.5	+ 51 10		15.3		
16 51.6	+ 54 55		15.7		
16 51.7	+ 53 03		15.6		
16 52.0	+ 54 55		15.2		
16 52.9	+ 51 58		15.4		
16 55.2	+ 55 06	1237*	14.7		
16 56.5	+ 52 29		15.5		
16 57.5	+ 54 56		14.8		
16 58.6	+ 56 08		15.4		
16 59.8	+ 55 10		15.5		
17 02.0	+ 51 28		15.3		
17 02.5	+ 55 13		14.9		
17 03.0	+ 56 05		15.7		
17 04.0	+ 51 41		15.6		compact
17 04.2	+ 56 16		15.6		
17 05.5	+ 52 12		15.5		compact
17 08.9	+ 55 43		15.5		
17 10.1	+ 56 48		15.6		
17 11.1	+ 53 11		15.3		
17 12.4	+ 51 15		15.7		
17 13.6	+ 52 27		15.5		
17 14.4	+ 52 22		15.7		diffuse spiral
17 14.7	+ 52 54		14.7		

Position α 1950 δ			NGC IC*	m_p	V_s km/sec	Remarks
h	m	o '				
17	17.8	+ 52 40	6358	15.1		
17	18.7	+ 56 40		15.7		
17	19.4	+ 52 42		15.5		
17	19.5	+ 51 57		15.4		
17	20.4	+ 54 20		15.7		
17	22.6	+ 52 04		14.8		
17	22.9	+ 52 00		15.5		
17	23.1	+ 53 30		15.7		double system in faint halo
17	23.6	+ 56 56		15.5		
17	25.1	+ 56 40		15.6		extremely compact
17	27.0	+ 56 54	6382	15.2		
17	27.7	+ 52 46	6386	14.9		
17	29.8	+ 56 40		15.6		





FIELD No. 278

17^h46^m $+54^o00'$

Survey Plate No. 1102

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
23741	17 29 18.1	+ 52 20 15	2.99
23914	17 36 18.5	+ 55 46 06	7.18
24093	17 42 56.5	+ 53 49 19	5.70
24322	17 50 50.3	+ 56 07 50	7.06
24585	18 01 07.4	+ 51 38 15	7.24
24645	18 03 03.4	+ 55 16 13	7.61

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1718.6 + 5229	open	230	14.1	Near	22
1726.4 + 5515	medium compact	123	1.8	ED	21
1730.4 + 5829	open	417	26.0	Near	17
1731.6 + 5348	medium compact	199	8.6	MD	16
1733.2 + 5644	medium compact	100	1.6	ED	15
1741.1 + 5450	medium compact	86	1.3	ED	13
1743.8 + 5528	open	128	6.8	Near	14
1744.0 + 5625	compact	132	2.1	ED	7
1746.2 + 5429	medium compact	85	1.2	ED	12
1751.4 + 5414	medium compact	66	2.0	VD	11
1751.5 + 5501	compact	96	1.4	ED	9
1752.0 + 5158	medium compact	115	4.8	D	20
1752.5 + 5627	compact	79	1.2	ED	8
1754.7 + 5654	compact	110	1.6	ED	4
1755.9 + 5556	medium compact	121	3.4	VD	6
1756.0 + 5114	medium compact	80	3.0	VD	19
1758.4 + 5649	compact	138	2.7	ED	3
1759.7 + 5504	compact	143	2.3	VD	5
1800.9 + 5401	medium compact	297	9.9	D	1
1801.2 + 5136	compact	128	2.1	ED	18
1801.4 + 5339	medium compact	74	1.1	ED	10
1807.2 + 5633	medium compact	130	8.6	Near	2

Average number of galaxies per cluster = 139.9

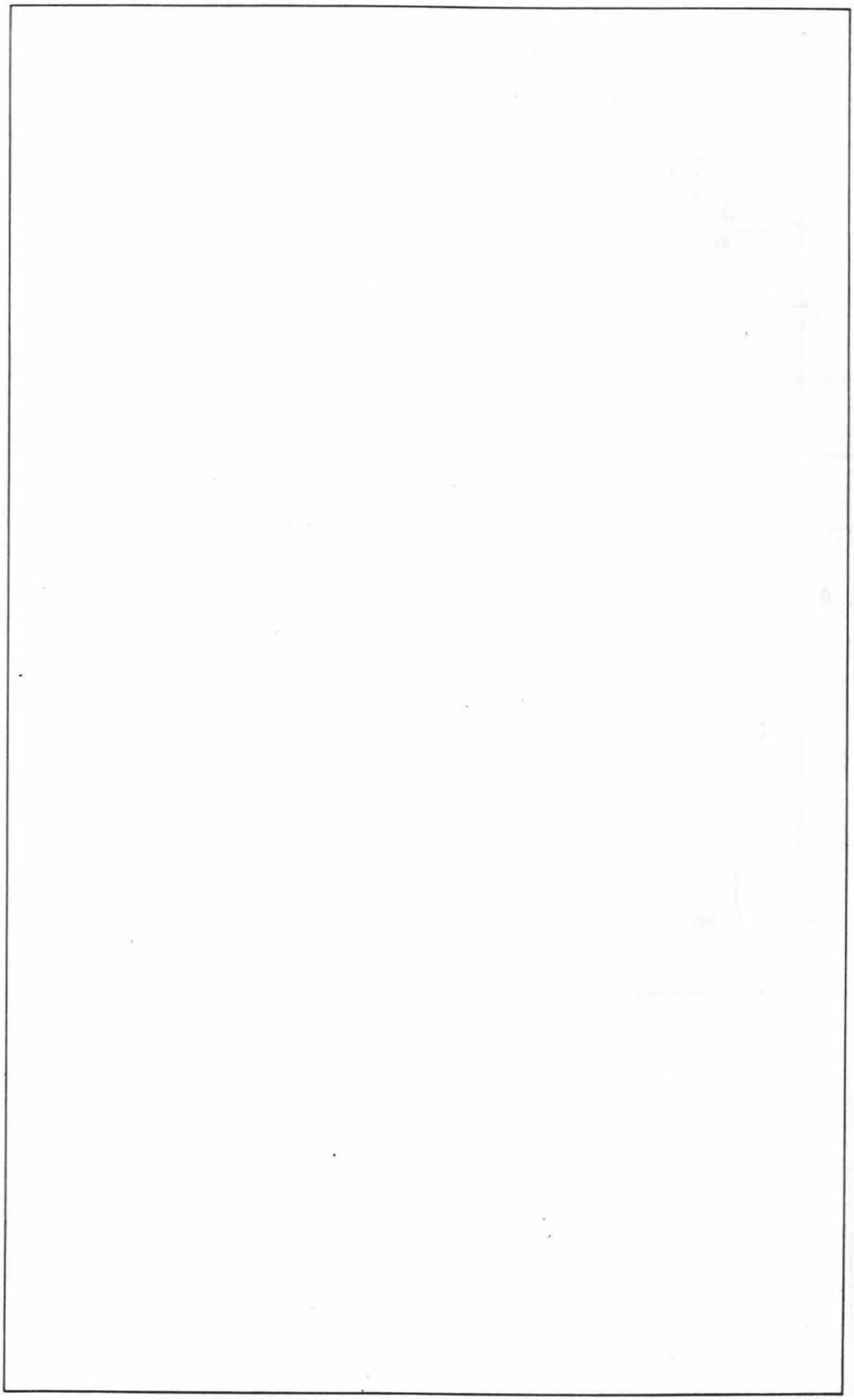
GALAXIES

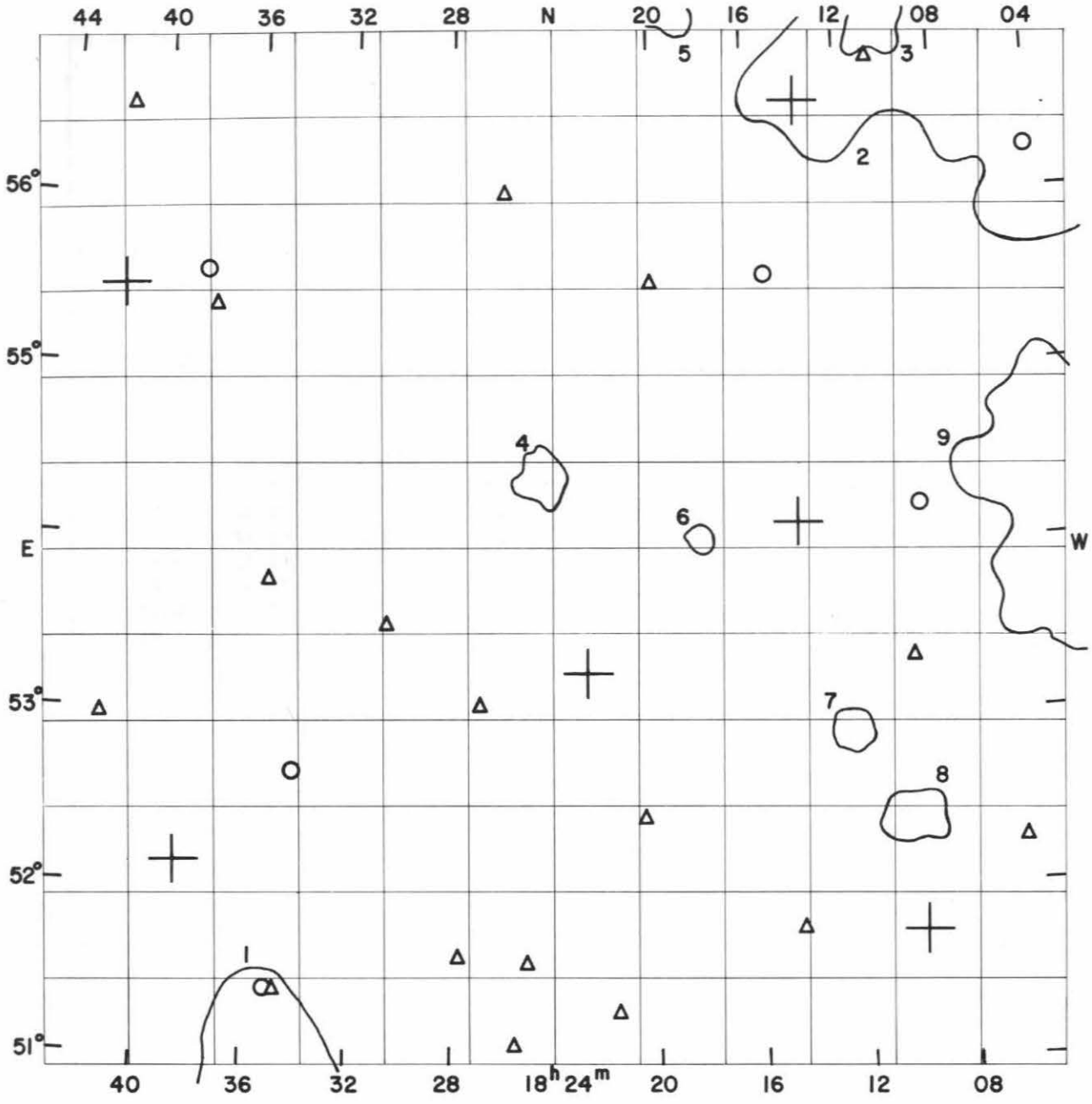
Position α 1950 h m	Position δ o ′	NGC IC*	m_p	V_s km/sec	Remarks
17 25.1	+ 56 40		15.6		extremely compact
17 27.7	+ 52 46	6386	14.9		
17 28.1	+ 52 15		15.2		
17 29.4	+ 51 41		15.7		
17 29.6	+ 51 29		15.5		very compact
17 29.7	+ 51 30		15.1		
17 29.8	+ 56 23		15.4		
17 29.8	+ 56 40		15.6		
17 30.5	+ 56 46		15.5		
17 36.0	+ 54 15		15.4		double system
17 36.0	+ 55 02		15.3		
17 36.8	+ 51 16		15.7		very compact
17 36.8	+ 54 05		15.7		
17 39.0	+ 51 04		15.7		
17 39.0	+ 51 06		15.4		
17 39.4	+ 51 14		15.4		
17 41.2	+ 56 10		15.6		very diffuse spiral
17 41.3	+ 56 00		15.6		diffuse spiral
17 41.5	+ 55 50		15.7		
17 42.9	+ 56 49	6449	14.6		
17 43.5	+ 55 51		15.4		
17 43.8	+ 56 30		15.3		
17 43.9	+ 55 21		15.0		
17 44.0	+ 55 43	6454	14.6		
17 44.9	+ 55 47	6460	15.3		
17 45.5	+ 51 20		15.1		

Position α 1950 h m	δ o '	NGC IC*	m_p	V_s km/sec	Remarks
17 46.0	+ 54 54		15.1		
17 46.4	+ 51 28		15.7		
17 46.8	+ 51 49		15.6		
17 47.0	+ 51 26	6466	15.0		
17 47.0	+ 52 15		15.5		
17 47.3	+ 54 10	6479	14.5		
17 47.5	+ 51 12	6478	14.1	+ 6857	
17 48.6	+ 55 31		15.3		
17 49.2	+ 56 41		15.2		double system, connected
17 49.4	+ 51 04		15.6		
17 49.8	+ 51 03		15.5		compact
17 51.0	+ 52 28		15.4		
17 55.9	+ 54 24		15.3		compact
17 55.9	+ 55 49		15.5		
17 56.7	+ 54 27		15.5		
17 58.3	+ 56 13	6532	15.0		
17 58.6	+ 52 23		15.2		
18 02.6	+ 54 42		15.6		
18 03.0	+ 53 01		15.7		
18 04.1	+ 56 15	6562	14.7		compact

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
6478	-	-	-	-	-	Sc	-	-





FIELD No. 279

18^h24^m $+54^\circ00'$

Survey Plate No. 789

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
24827	18 09 52.2	+ 51 43 37	7.21
24927	18 13 48.4	+ 56 34 14	6.41
24943	18 14 14.3	+ 54 07 27	6.79
25145	18 22 43.1	+ 53 16 21	6.21
25559	18 38 43.8	+ 52 08 54	5.85
25635	18 41 39.8	+ 55 29 17	5.08

CLUSTERS OF GALAXIES

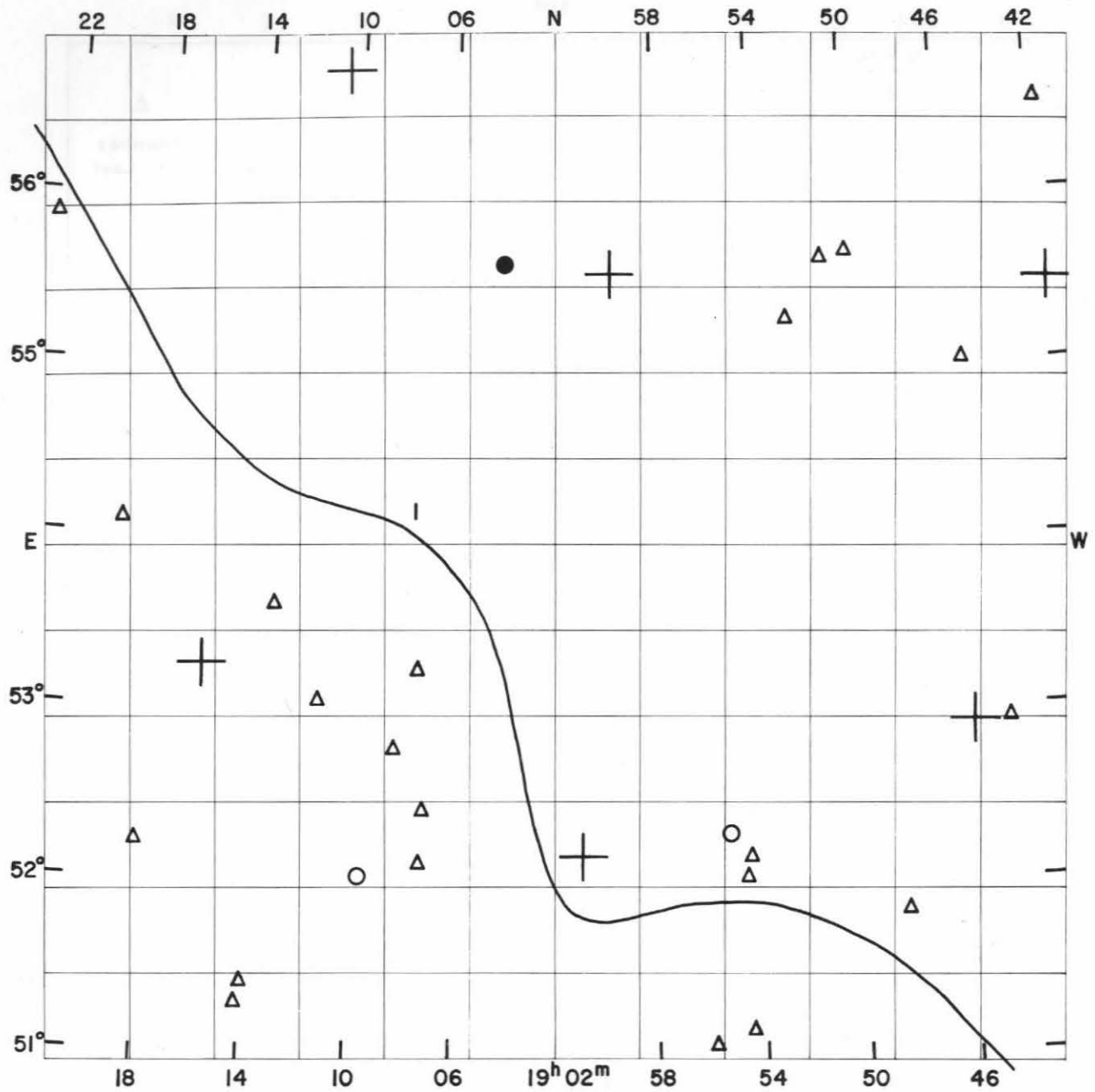
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1800.9 + 5401	medium compact	297	9.9	D	9
1807.2 + 5633	medium compact	130	8.6	Near	2
1810.1 + 5223	medium compact	86	1.8	D	8
1810.3 + 5659	medium compact	64	2.0	VD	3
1812.4 + 5254	compact	61	1.3	ED	7
1818.2 + 5401	compact	55	0.8	ED	6
1818.9 + 5705	medium compact	90	1.4	VD	5
1824.5 + 5423	compact	144	1.6	ED	4
1916.8 + 4855	medium compact	3755	73.7	Near	1 *

Average number of galaxies per cluster = 520.2

*) see special map on page 386

GALAXIES

Position α 1950 δ	NGC IC*	m_p	V_s km/sec	Remarks
h m o '				
18 04.1 + 56 15	6562	14.7		compact
18 05.8 + 52 16	6566	15.5		compact, halo
18 09.4 + 54 13		14.9		
18 09.8 + 53 20		15.6		
18 10.7 + 56 47		15.7		
18 14.5 + 51 46		15.3		
18 15.3 + 55 33	1286*	14.8		
18 20.0 + 55 31		15.6		
18 20.5 + 52 20		15.4		
18 21.6 + 51 19		15.3		
18 25.1 + 51 35		15.7		
18 25.6 + 51 07		15.2		
18 26.1 + 56 02		15.4		
18 26.9 + 53 05		15.5		double system
18 27.7 + 51 37		15.6		
18 30.6 + 53 32		15.7		compact
18 34.2 + 52 41		14.3		compact, faint jet
18 34.8 + 51 25		15.7		
18 35.2 + 51 26		14.9		
18 35.3 + 53 47		15.3		
18 37.9 + 55 22		15.6		
18 38.3 + 55 35	6691	14.1		
18 41.6 + 56 32		15.7		
18 41.8 + 52 59		15.5		diffuse



FIELD No. 280

$19^h02^m \quad +54^\circ00'$

Survey Plate No. 542

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
25635	18 41 39.8	+ 55 29 17	5.08
25757	18 45 36.0	+ 52 55 56	5.76
26169	18 59 44.0	+ 55 35 10	5.52
26202	19 00 56.4	+ 52 11 15	6.42
26475	19 10 43.8	+ 56 46 24	5.24
26621	19 15 56.8	+ 53 16 32	3.98

CLUSTERS OF GALAXIES

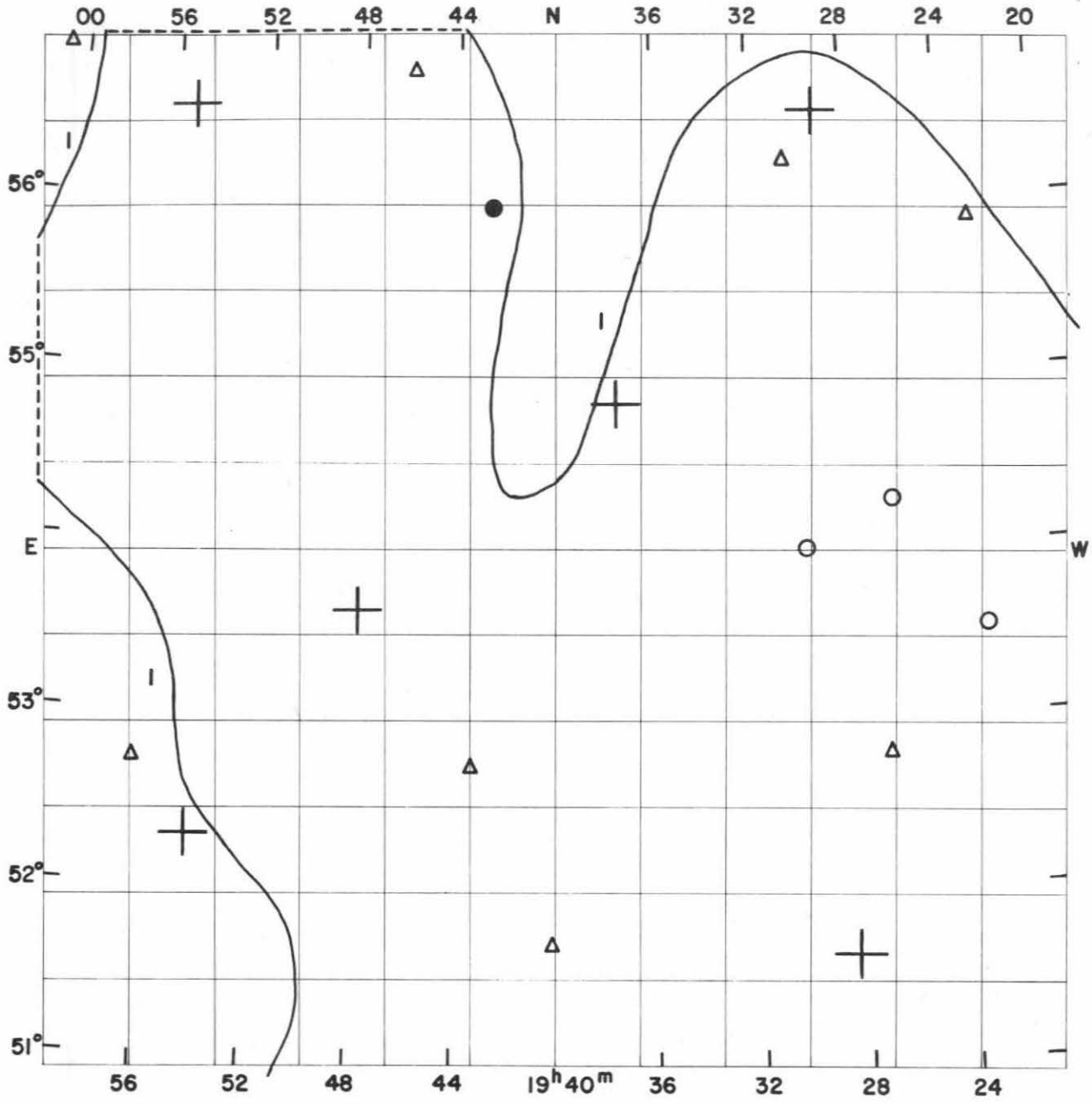
Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1916.8 + 4855	medium compact	3755	73.7	Near	1 *

Average number of galaxies per cluster = 3755.0

*) see special map on page 386

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
18 41.6	+ 56 32		15.7		
18 44.1	+ 52 56		15.6		
18 45.2	+ 55 02		15.6		diffuse
18 48.4	+ 51 50		15.7		very diffuse
18 49.9	+ 55 42		15.7		double system
18 51.0	+ 55 40		15.2		
18 52.5	+ 55 18		15.5		
18 54.4	+ 52 11		15.7		double system
18 54.5	+ 51 11		15.7		compact
18 54.5	+ 52 05		15.5		system with jet
18 55.2	+ 52 18	6732	14.4		double system
18 56.0	+ 51 05		15.6		
19 04.1	+ 55 39	6757	14.0		
19 07.2	+ 52 28		15.4		compact
19 07.3	+ 52 10		15.5		
19 07.4	+ 53 17		15.2		
19 08.3	+ 52 50		15.5		compact
19 09.6	+ 52 05		14.6		
19 11.3	+ 53 06		15.6		
19 13.2	+ 53 40		15.6		
19 14.0	+ 51 27		15.4		
19 14.2	+ 51 19		15.7		
19 18.2	+ 52 15		15.3		
19 19.4	+ 54 07		15.3		
19 22.8	+ 55 53		15.1		



FIELD No. 281

19^h40^m $+54^\circ00'$

Survey Plate No. 774

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ′ ″	
26947	19 28 26.7	+ 51 37 21	3.94
26963	19 29 12.5	+ 56 32 18	6.78
27206	19 37 33.8	+ 54 51 21	5.86
27456	19 47 51.1	+ 53 38 25	6.85
27618	19 54 20.2	+ 52 18 20	4.9
27641	19 55 13.8	+ 56 33 07	6.10

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1916.8 + 4855	medium compact	3755	73.7	Near	1 *

Average number of galaxies per cluster = 3755.0

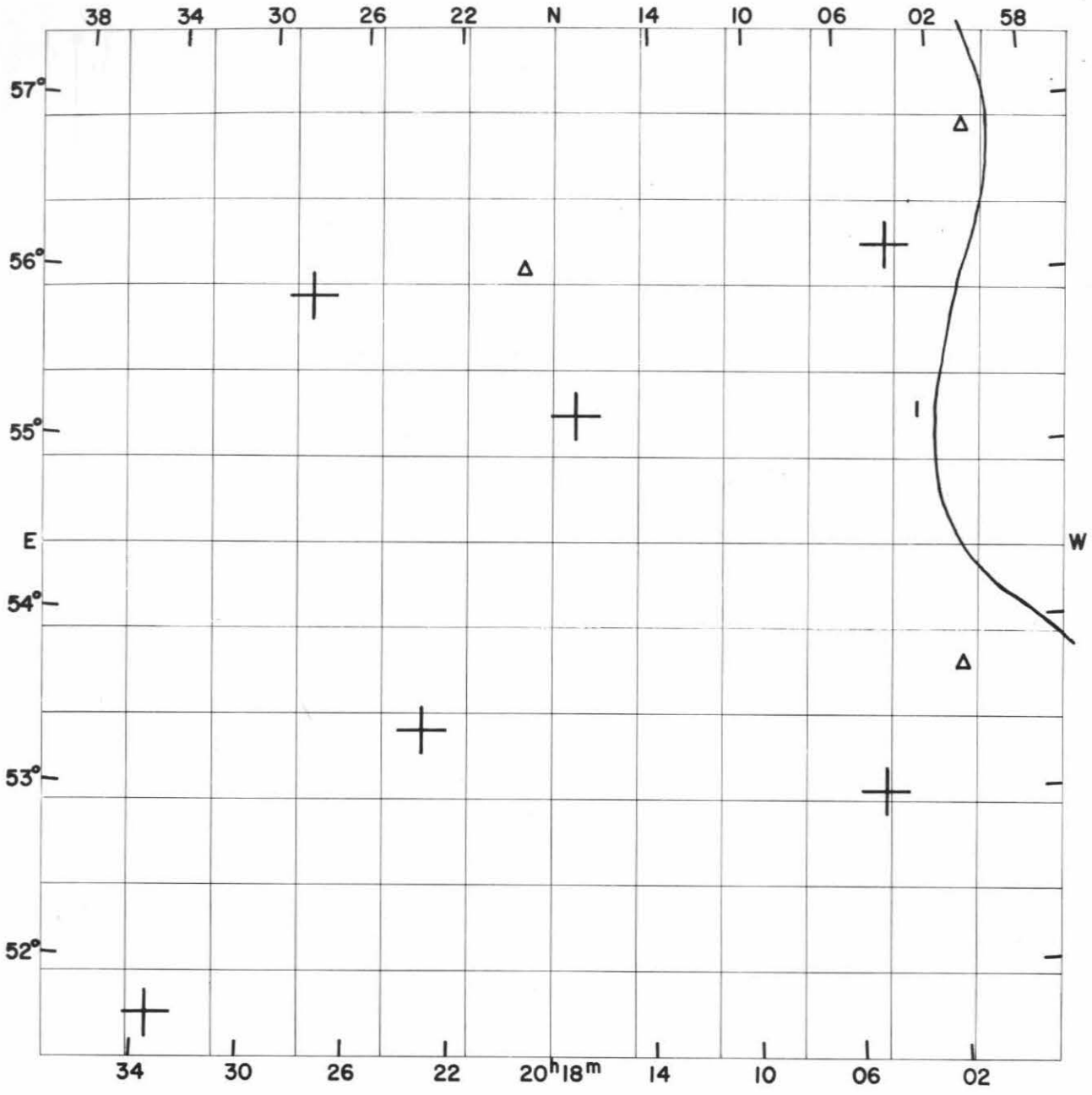
*) see special map on page 386

GALAXIES

Position α 1950 h m	Position δ o '	NGC IC*	m_p	V_s km/sec	Remarks
19 22.8	+ 53 32	6798	14.5		
19 22.8	+ 55 53		15.1		
19 26.5	+ 54 16	6801	14.8		
19 26.9	+ 52 47		15.3		
19 29.9	+ 54 00		14.4		double system
19 30.5	+ 56 15		15.7		bright star superposed
19 40.0	+ 51 43		15.2		
19 42.6	+ 55 59	6824	13.1	+ 3386	
19 43.3	+ 52 45		15.5		compact
19 46.0	+ 56 47		15.4		
19 56.5	+ 52 44		15.3		compact in extended halo
20 00.7	+ 56 52		15.2		

MAGNITUDES AND TYPES FROM OTHER SOURCES

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
6824	-	-	13.06	Sb	12.9	Sb	-	-



FIELD No. 282

20^h18^m $+54^o30'$

Survey Plate No. 543

GC STARS

Nos.	R.A.	Decl.	m_p
	h m s	o ' "	
27899	20 04 13.3	+ 56 11 46	6.18
27912	20 04 54.8	+ 53 01 02	5.72
28258	20 17 10.7	+ 55 14 24	6.0
28410	20 23 11.5	+ 53 23 18	6.45
28531	20 28 12.2	+ 55 53 59	5.87
28667	20 33 23.0	+ 51 40 51	6.26

CLUSTERS OF GALAXIES

Cluster	Character	Population	Diameter in cm	Distance	Number on chart
1916.8 + 4855	medium compact	3755	73.7	Near	1 *

Average number of galaxies per cluster = 3755.0

*) see special map on page 386

GALAXIES

Position α 1950 h m	Position δ 1950 ° ′	NGC IC*	m_p	V_s km/sec	Remarks
20 00.7	+ 56 52		15.2		
20 01.6	+ 53 44		15.6		extremely diffuse spiral
20 20.3	+ 56 05		15.7		diffuse spiral

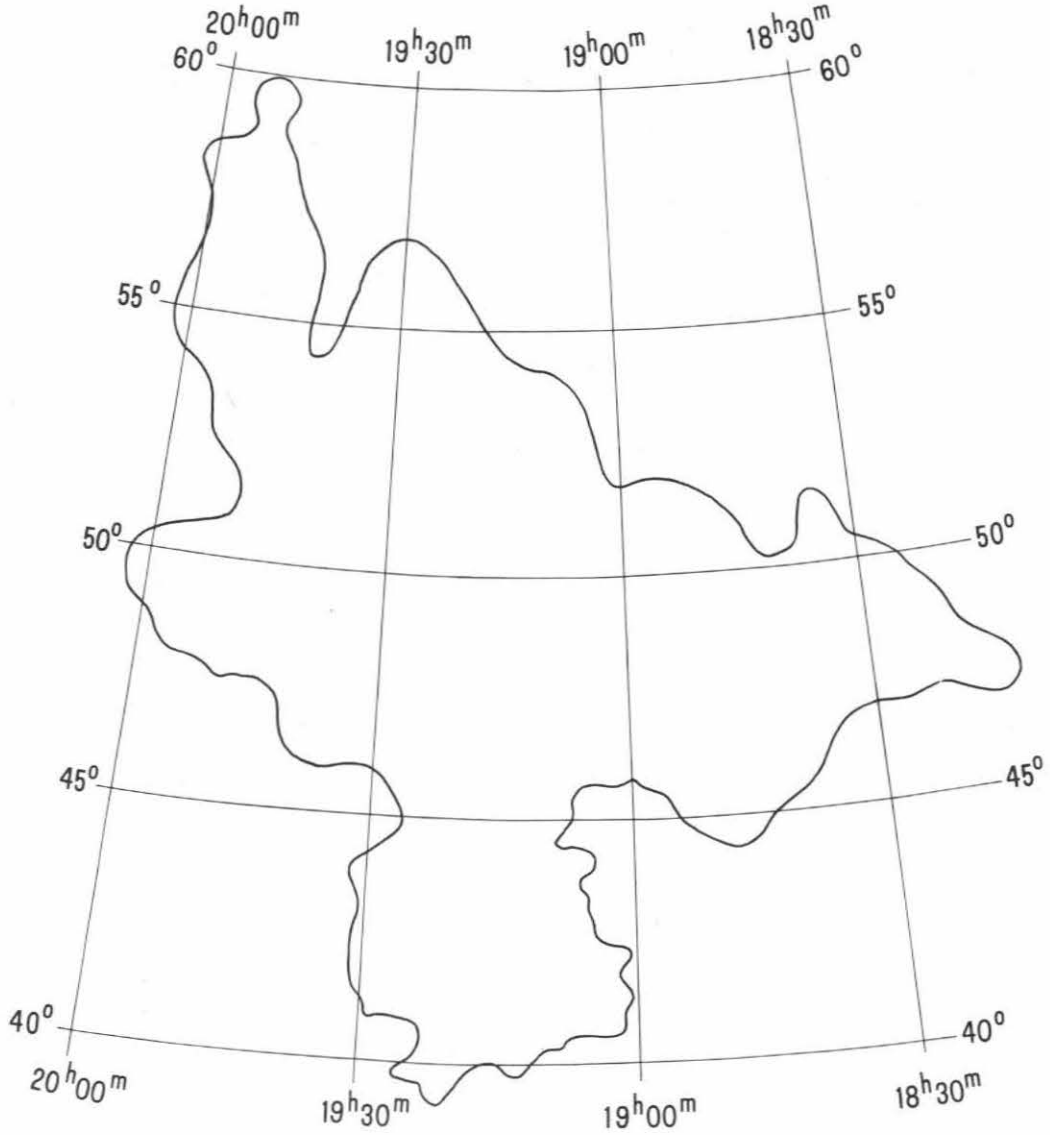
An area of about one square degree, near the SW corner of this field and outlined by

$$19^h59^m \leq \alpha \leq 20^h10^m , \quad 51^\circ00' \leq \delta \leq 51^\circ30'$$

is not covered by any of the neighboring fields. However, it contains neither clusters nor galaxies fit for inclusion in this catalogue.

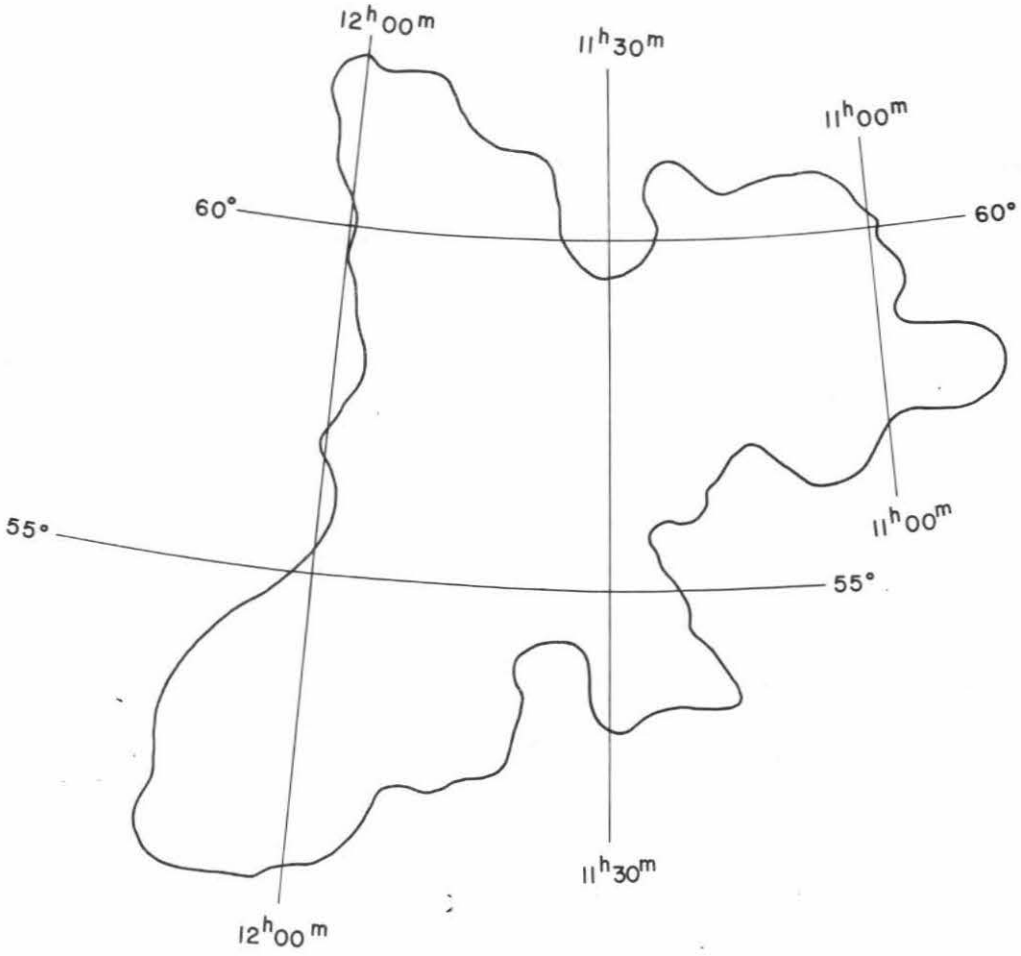
SPECIAL MAP OF CLUSTER 1916.8 + 4855

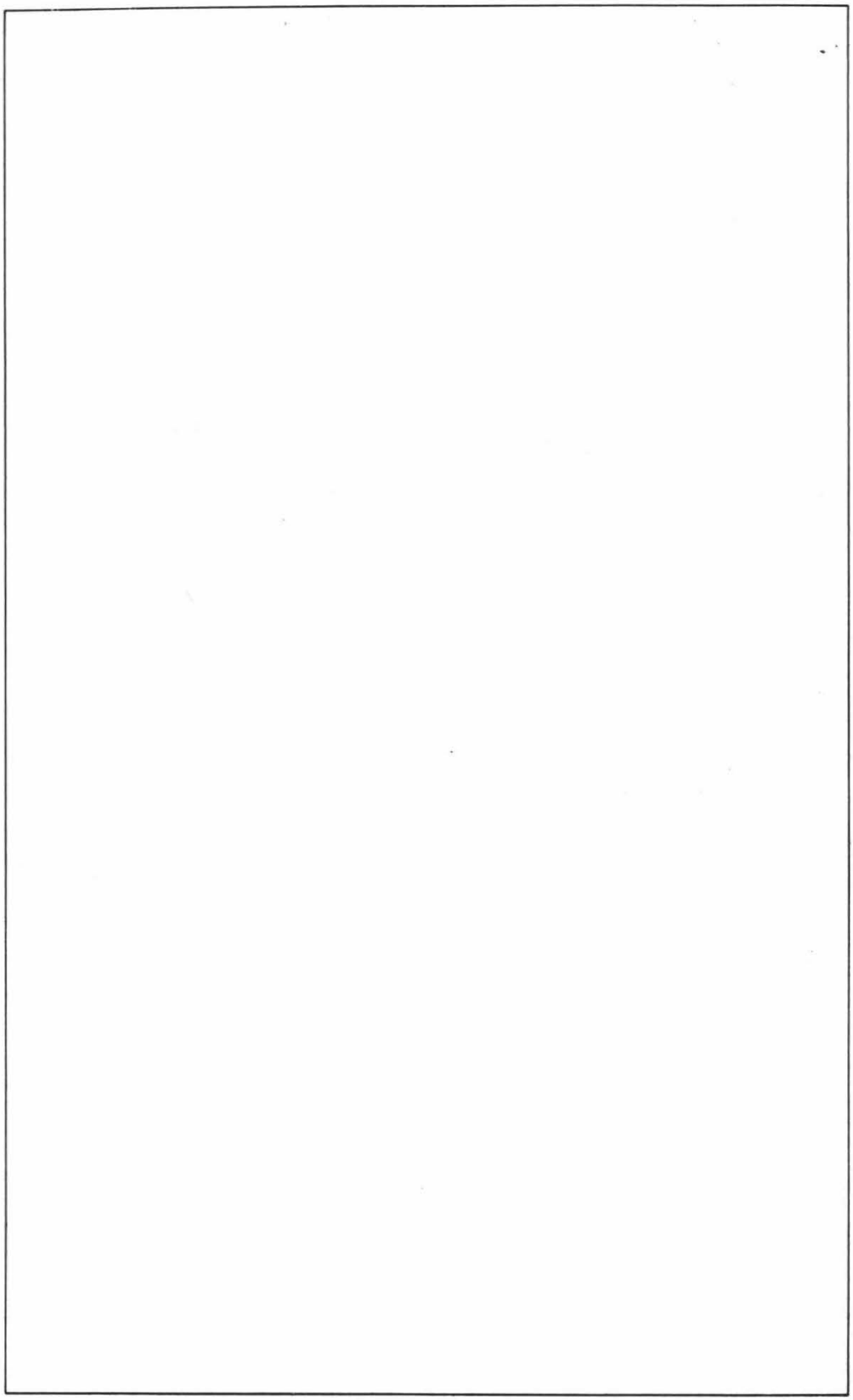
This cluster is No. 1 in FIELDS 228, 229, 230, 254, 255, 256, 257, 279, 280, 281, 282 of this volume and also in FIELD 303 of Volume IV.



SPECIAL MAP OF CLUSTER 1138.7 + 5650

This cluster is No. 11 in FIELD 268 and No. 5 in FIELD 269 of this volume; No. 5 in FIELD 291 and No. 2 in FIELD 292 of Volume IV.





ERRORS AND OMISSIONS
IN VOLUME I

Page 50: For galaxy $12^h29^m.9 + 00^\circ40'$ add this remark: "$m_H = 13.0$"

Page 54: For galaxy $12^h52^m.6 + 00^\circ23'$ add this remark: "$m_H = 12.9$ S"

Page 54: For galaxy $13^h01^m.9 - 03^\circ18'$ add "$V_s = +1350$"

Page 67: For galaxy $14^h15^m.7 + 01^\circ07'$ the IC number is 992*, not 942*

Page 118: For galaxies IC 563* and IC 564* add "$V_s = +6030$" and "$V_s = +6110$" respectively.

Page 131: For galaxy $11^h01^m.8 + 05^\circ06'$ add "NGC No. 3509" and "$V_s = +7600$"

FIELD No. 39: The following galaxy must be added:

"$\alpha = 11^h18^m.6$, $\delta = +03^\circ28'$, NGC 3641, $m_p = 14.4$, extremely compact"

An open circle should be placed on the map in the corresponding place.

FIELD No. 41: The following galaxy must be added:

"$\alpha = 12^h12^m.7$, $\delta = +06^\circ02'$, $m_p = 14.9$, $V_s = +2039$, very compact"

An open circle should be placed on the map in the corresponding place.

Page 149: For galaxy $12^h16^m.6 + 04^\circ08'$ add: "$V_s = +1716$"

Page 150: For galaxy $12^h19^m.9 + 04^\circ50'$ add: "NGC 4301"

Page 150: For NGC 4339 add this remark: "$m_H = 12.6$ E"

Page 150: For NGC 4343 eliminate "$V_s = +714$"

Page 150: For IC 3256* add "$V_s = +714$" and this remark: "$m_H = 12.8$ E, double system"

Page 150: For IC 3259* change α to read "$12^h21^m.3$"

Page 150: For IC 3267* change α to read "$12^h21^m.6$"

Page 150: For galaxy $12^h22^m.2 + 07^\circ38'$ add: "NGC 4366"

Page 153: Add or change the following three lines:

NGC IC*	Bigay 1951		Pettit 1954		Humason, Mayall, Sandage 1956		Holmberg 1958	
4343	-	-	-	-	-	-	13.22	Sa
3256*	-	-	-	-	-	S0	13.48	E
3260*	-	-	-	-	-	-	14.16	S0

Page 156: For galaxy $12^h52^m.3 + 02^\circ55'$ add: "NGC 4810" and "$V_s = +890$"

Page 156: For galaxy $12^h52^m.3 + 02^\circ56'$ add: "NGC 4809" and "$V_s = +950$"

Page 231: For galaxy $9^h52^m.8 + 08^\circ37'$ add: "$V_s = +1118$"

Page 262: For NGC 4406 change sign of V_s to read "$V_s = -333$" and delete the designation "double nebula"

Page 262: For NGC 4410 add this remark: "double nebula"

Page 264: For galaxy $12^h30^m.0 + 09^\circ26'$ add: "$V_s = +1317$"

Page 288: For galaxy $14^h30^m.3 + 10^\circ06'$ add: "NGC 5669"

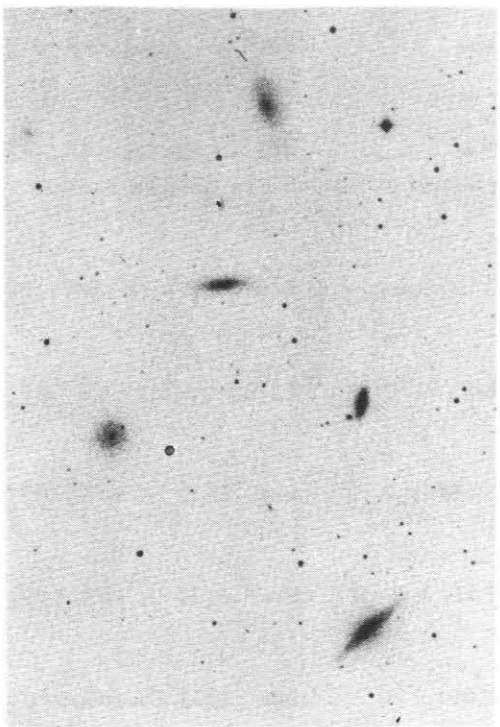
Page 302: For NGC 5970 add the remark: "$m_H = 12.4$ S"

Page 302: For NGC 5984 add the remark: "$m_H = 13.0$"

Notice concerning the identifications of five galaxies in FIELD No. 42.

The five galaxies depicted on the accompanying photograph have given rise, in the past, to a considerable confusion concerning their proper identifications. It is recommended that in the future the following NGC/IC* numbers be used exclusively:

A = 4343, B = 3256*, C = 3259*, D = 3260*, E = 3267*.



Furthermore, the numbers 4341 and 4342 should be dropped entirely since the existence of these objects is doubtful even to Dreyer himself, while on the 48-inch Survey Plates no trace of them has ever been found.

The corrections for pp. 150 and 153 are designed to bring this catalogue up to these standards. To facilitate handling of these objects, however, a list is given below of some prominent sources using identifications other than the ones recommended above and disagreeing, in part, among themselves.

K. Reinmuth 1926
E. Holmberg 1958 } A = 4341, B = 4342, D = 4343

G. and A. de Vancouleurs 1964
H. Shapley - A. Ames 1932 } B = 4342, D = 4341

M. L. Humason, N. U. Mayall, A. R. Sandage 1956: B = 4343
specifically: V_s + Type given belong to B, but the position given is that of A.

E. P. Hubble, personal files: B = 4341, and the small companion about 30" SE of B is numbered 4342.

ERRORS AND OMISSIONS
IN VOLUME II

Page 11: For cluster No. 8 change α to read 0733.1 instead of 0377.1

Page 29: For galaxy $9^h27^m.3 + 20^\circ17'$ change the IC number to read 2487* instead of 2489*

Page 61: For galaxy $12^h04^m.6 + 17^\circ16'$ add: "$V_s = +6740$"

Page 76: For galaxy $13^h25^m.3 + 18^\circ02'$ change the NGC number to read 5158 instead of 5188 and delete the remark "$m_H = 12.7$ S"

Page 90: For NGC 5600 add this remark: "$m_H = 12.4$ S"

Page 108: For galaxy $15^h59^m.8 + 15^\circ50'$ add the IC number 1165*

Page 109: For IC 1172* add: "$V_s = +9936$" and this remark: "= NGC 6044"

Page 109: For IC 1176* add: "$V_s = +11658$" and this remark: "= NGC 6056"

Page 109: For IC 1184* add: "$V_s = +10038$" and this remark: "= IC 1183*"

Page 109: For galaxy $16^h03^m.5 + 17^\circ29'$ add: "IC number 1186*" and "$V_s = +11012$"

Page 145: For NGC 2545 add this remark: "$m_H = 13.0$"

Page 157: For NGC 2903 add this remark: "$m_H = 10.3$ Sc^h

Page 170: For galaxy $11^h07^m.1 + 24^\circ32'$ add: "$V_s = +6314$"

Page 170: For galaxy $11^h07^m.2 + 24^\circ31'$ add: "$V_s = +5996$"

FIELD No. 126: The following galaxy must be added:

"$11^h10^m.8 + 22^\circ26'$, $m_p = 13.2$, resolved dwarf system *) "

with the footnote reading: "*) $m_p = 12.85$ Holmberg"

A filled circle should be placed on the map in the corresponding place.

Page 193: For galaxy $12^h57^m.3 + 22^\circ05'$ add IC number 841*

Page 193: For NGC 5012 add: "$m_H = 12.6$ Sc"

Page 194: For NGC 5016 add: "$m_H = 12.8$ S"

Page 224: For NGC 6052 add: "$m_H = 13.0$"

Page 266: For NGC 2608 add: "$m_H = 12.9$ S"

Page 281: For NGC 3068 add: "$V_s = +6409, +6236$"

Page 281: For galaxy $9^h56^m.4 + 30^\circ59'$ change m_p to read 13.6 instead of 14.6 and add footnote: "*) $m_p = 12.96$ Holmberg"

Page 302: For galaxy $12^h13^m.6 + 28^\circ24'$ add: "$V_s = +6594$"

Page 307: For Cluster No. 43 change α to read 1249.5 instead of 1249.9

Page 314: For galaxy $12^h55^m.8 + 26^\circ40'$ change identification to read "NGC 4849" instead of IC 838* and add: "$V_s = +5823$"

Page 324: For NGC 5116 add this remark: "$m_H = 12.9$ S"

Page 324: For galaxy $13^h21^m.4 + 31^\circ50'$ add: "NGC 5127"